U.S. Department of Commerce
National Technical Information Service



N79-20972

THE IRAS RADIATION ENVIRONMENT

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
WASHINGTON, DC

DEC 78

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X-601-79-7

TM-80275

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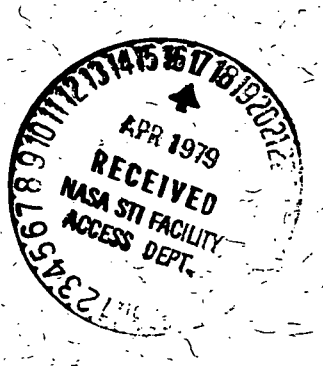
(NASA-TM-80275) THE IRAS RADIATION ENVIRONMENT (NASA) 354 p HC A16/MF A01 CSCL 03B

N79-20972

Unclas
G3/93 19640

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DECEMBER 1978



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The IRAS Radiation Environment

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NASA-Goddard Space Flight Center
Sciences Directorate
National Space Science Data Center

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Introduction

At the request of the IRAS Project Office and with support from JPL and NASA Headquarters, a comprehensive study was conducted to determine and define the radiation environment of the IRAS mission. Initially limited in its objective, the scope of the study was later expanded to include recently implemented special data processing and analysis methods that produced novel types of results and display products.

The material in this report is structured and organized in a fashion parallel to that of a similar report on the radiation environment of the Space Telescope (X-601-78-30, October 1978). Also, the pattern established and the style adopted in the ST report is being closely followed in the present writing. It is hoped that this arrangement may facilitate the complimentary use of the two documents, thereby providing the largest amount of environment information and radiation data to the greatest number of users and covering the widest possible range of application areas.

The new analysis-features introduced in this report pertain to:

1. Positional Fluxes as a function of time and energy for the most severe pass through the South Atlantic Anomaly (SAA).
2. Total positional doses as a function of time and shield thickness for the most severe pass through the SAA.
3. Special comparison mapping fluxes, for ratios of positional intensities to orbit integrated averages, in terms of several energies.
4. Statistical exposure-time history of trajectory as a function of energy, indicating, in percent of total mission duration, the time intervals over which the instantaneous fluxes would exceed the orbit integrated averages.

Because the attainment of nominal orbit is not always achieved during launch, the study effort was extended beyond the targeted flight path to higher and lower altitudes, in order to provide some information in case the final trajectory should be different from the planned nominal. This additional effort involves orbital flux integrations only and not special processing and analysis.

Extensive calculations were performed and a large data base was generated, processed, and analyzed. The results of this work are presented in a transparent way to facilitate their use:

As guidelines for laboratory radiation studies of optical, electronic, and detector components;

As a source of information for the investigators on the environment (average and instantaneous) in which their instruments must operate; and

As the boundary conditions for calculating the radiation environment interior to the spacecraft.

Following the precedent established with ST, the external (surface incident) charged particle radiation, predicted for the IRAS satellite was determined in two ways: (a) by orbital flux integration for three selected mission altitudes and (b) by geographical instantaneous flux-mapping for the nominal flight-path altitude. The latest standard models of the environment were used in the calculations.

Magnetic field definitions for three nominal circular trajectories and for the geographic mapping positions were obtained from a current field model.

Spatial and temporal variations or conditions affecting the static environment models were considered and accounted for, wherever possible.

Finally, limited shielding and dose evaluations were performed for a simple geometry.

Results, given in graphical and tabular form, are analyzed, explained, and discussed. Conclusions are presented and commented on.

2. SPECIFICATION OF ORBITS

The analysis was based on three nominal circular orbits with altitudes of 600, 900, and 1200 kilometers, and all with inclination of about 99 degrees.

3. GENERATION OF TRAJECTORIES

A flight path emphemeris was generated for each selected orbit with the GEODYN-BLCONV System[1] for trajectories of 24-hour duration defined at 2-minute intervals. The length of simulated orbit time and the integration stepsize were especially selected so as to provide sufficient point density to insure an adequate sampling of the ambient radiation environment when flying the trajectories through the models. The trajectories were subsequently converted from geodetic polar to magnetic B-L coordinates with McIlwain's INVAR program of 1965[2] and the field routine ALLMAG,[3] which now utilizes the BARRACLOUGH 1975 field model.[4] The field computations were extrapolated to the tentative mission epoch of 1980.0 with linear time terms representing secular variations of the field.

4. FLIGHT PATH EXPOSURE TO TRAPPING DOMAINS

The specified nominal flight-path configuration (i=99°, h=900 km) displays a significant characteristic of polar orbits in magnetic L- space: they

traverse the entire terrestrial radiation belt twice during each revolution, moving back and forth through regions of low L values (the inner zone: $1.0 < L \leq 2.8$), regions of high L values (the outer zone: $2.8 < L < 12$), and regions outside the trapping domain (external). Occasionally, some revolutions will also enter regions of space where no particle trapping can occur because of atmospheric cut-off conditions; that is, trajectory segments may have a combination of magnetic B and L values that place them outside the atmospheric cut-off limits of the models.

These excursions and the "external" visitations afford the satellite an amount of flux-free time, which may be of substantial duration.

5. GEOGRAPHIC FLUX-MAPPING

A. Range and Altitude

The geographic mapping activity was limited to the h=900 kilometer altitude. It extended in geodetic latitude (Ω) from 81°N to 86°S, covering all longitudes (φ) from 180°W to 180°E. Grid points were generated at increments of $\Delta\Omega = 1°$ and $\Delta\varphi = 3°$.

B. Magnetic Parameters and Flux Calculations

The magnetic B-L parameters corresponding to the grid positions were obtained with the same set of programs as in the trajectory conversion (INVAR, ALLMAG, BARRACLOUGH), and for the same epoch (1980.0).

Instantaneous integral, omnidirectional electron and proton fluxes at the grid points were obtained for several energy thresholds ($E_e >$ .04, .25, .50, 1.0, 2., 3., 4., 5., 6., MeV; $E_p >$ .04, .50, 1., 5., 15., 30., 50., 100., 300. MeV).

6. GEOGRAPHIC COMPARISON MAPPING: FLUX RATIOS

A. Range and Altitude

Same as in preceeding section with same density of grid points.

B. Magnetic Parameters and Flux Calculations

Same as in preceeding section. However, ratios of instantaneous integral, omnidirectional electron and proton fluxes to orbit integrated averages at the grid points, were obtained for some different energy thresholds ($E_e >$ .5, 1, 2, 3, 4, 5, 6; $E_p >$ 5, 10, 30, 50, 100, 200, 500).

7. TRAPPED PARTICLE ENVIRONMENT MODELS

The fluxes in this study were obtained from current NSSDC models: the solar maximum AE6 for the inner zone electrons[5], the new interim model AEI7 for the outer zone electrons[6], and the solar maximum version of the new AP8 model[7] for energetic trapped protons. It should be noted that the interim AEI7 does not reflect solar cycle variations in its present state. However, this model was issued in two versions, the AEI7-HI and the AEI7-LO, in order to account for differences in the data sets used in their construction. Both versions were used in this effort. All models describe an average static environment at a given epoch.

8. GEOMAGNETIC SHIELDING AND SOLAR FLARE PROTONS

Low altitude polar orbits experience a significant amount of geomagnetic shielding from cosmic rays of solar or galactic origin in the energy range $E > 10$ MeV. Therefore, it may be assumed that the IRAS spacecraft will only intermittently be exposed to the unattenuated interplanetary solar flare proton intensities of all energies above 10 MeV. To a first approximation, the fluxes may also be considered omnidirectional and isotropic, probably to within 10-15%.

Usually, geomagnetic shielding effects on geocentric missions are being evaluated with simple rigidity considerations because of substantial diurnal variations in the cutoff latitude associated with geomagnetic tail effects (2-4 degrees) and storm-induced changes (> 4 degrees). The simple analysis used here assumed that energetic solar protons of all energies above 10 MeV have free access to all magnetospheric regions external to a dipole shell of L=5 earth radii, which is equivalent to a cut-off latitude of about 63 degrees.

Predictions of solar flare proton fluxes at 1 AU are obtained as a function of mission duration τ and confidence level Q^* on the basis of a probabilistic analysis[8] using a modified type of Poisson statistics by a computerized model SOLPRO[9] that includes the distinction between "ordinary" (OR) and "anomalously large" (AL) events and the probability of occurrence of the latter. Both AL- and OR- event fluences are non-linear functions of Q and τ.

* Q denotes the degree of confidence one wishes to assign to the results, namely that for the specified mission duration the calculated fluences are the smallest values which will not be exceeded by actually encountered intensities.

For these predictions, only high quality comprehensive satellite measurements (not ground observations) are being used, covering almost the entire 20th solar cycle. There have been indications that descriptions of the solar flare environment in interplanetary space (at 1 AU), derived from interpretations and extrapolations of ground based measurements, have not been very accurate.

It should be noted that the statistics cannot predict when an AL event will occur; only the probability that one will occur in a given length of time. And it must be remembered that a single AL event will impart its total fluence within two to four days.

This implies that for unmanned satellites with mission durations of $\tau \geq 1$ year, OR-event fluences are not significant because probabilistic theory predicts the possible occurrence of at least one AL event, even for the lowest allowable confidence level (Q=80%).

9. ORBITAL FLUX INTEGRATIONS

Orbital flux integrations were performed with the UNIFLUX[10] and the SOFIP[11] systems. UNIFLUX provided L-band distributions and exposure times with B-L bin breakdown, while SOFIP provided the dose and shield data.

10. FLUX DATA: TYPE, QUALITY, AND VARIATIONS

The trapped particle flux data available from the models represent omnidirectional, integral intensities that one would expect to obtain as average values over periods in excess of six months. But over most regions of magnetospheric space ($L \gtrsim 2$ earth radii), short term excursions can vary from these values by factors of 10^2 to 10^3, depending on the particle energies and on the type and intensity of the causative event. These variations do affect the IRAS mission because its trajectory enters regions of space where L is greater than 2 earth radii. Also, trapped particle populations experience changes due to: (a) local time (LT) dependence, and (b) solar cycle dependence. Both are of consequence to IRAS. The former is significant for spacecraft that sample regions of $L > 5$ earth radii, which are visited by IRAS. To compensate for these variations, the model provides LT-averaged values, which should yield an adequate approximation for missions of long duration ($\tau \geq 1$ year). The latter has been taken into account by selecting the appropriate (solar max) models.

Solar cycle variations have opposite effects on each particle species:

	Solar Min	Solar Max
Electrons	low	high
Protons	high	low

The solar cycle changes, as derived from a comparison of the corresponding models, are functions of energy E and magnetic parameter L. For the inner zone electrons, they may range from a factor of 1 to a factor of 5.

Protons are only affected in the vicinity of the atmospheric cutoff regions. No changes of consequence have been observed in the heart of the proton trapping domain. Proton changes have about the same range as those of the electrons.

Should the IRAS mission duration extend past the maximum phase into the minimum phase of solar activity, new evaluations would have to be performed.

It is necessary to emphasize that the calculations, although based on the best data available for the past epochs, can only serve as approximations for the future.

It also should be noted that a basic uncertainty factor of 2 is attached to the flux values of the AP8 model, while the AE6 is characterized by an average uncertainty factor of 5. No uncertainty factor has yet been defined for the interim AEI7.

11. WORST AND BEST CASE CALCULATIONS

So as to provide worst and best case estimates, orbital flux integrations were performed at the three investigated altitude levels for the conditions and with the models indicated below:

Worst: with all uncertainty factors applied and using AEI7-HI
Best: no uncertainty factors applied and using AEI7-LO

Caution: the data given in special processing and analysis products (as for example mappings, comparisons, positional flux plots, etc.) are neither worst nor best case values. For these type of products, routinely no uncertainty factors are applied and the AEI7-HI is normally used.

12. DOSE AND SHIELDING EVALUATION

Best and worst case doses were calculated from the total orbit integrated, surface incident, omnidirectional, integral fluences by existing shielding codes,[12] as functions of various aluminum shield thicknesses.

A simple procedure was followed, not involving solid angle sectoring or three-dimensional geometry considerations. Instead, a simple two-dimensional geometry with a cosine law for the incident spectra was considered.

Bremsstrahlung calculations were performed with the same codes.

13. RESULTS: PRESENTATION DESCRIPTION

This section describes the form and format in which the results, derived from the Orbital Flux Integration (OFI) process, are presented for practical use. Except where otherwise specified, all particle data in this report relate to integral, omnidirectional fluxes or fluences.

A. Tabular Presentations

The outcome of all calculations is summarized in Tables 1 to 36. The tables are arranged in six sets, where every set pertains to one specific type of data. The first two sets have two similar members for every trajectory considered in the study: one for trapped protons and one for electrons, in that order. The last four sets contain only one member for each trajectory. A more detailed description of the tables is provided elsewhere.

Note: sets I, II, III, and IV are double sets composed of best and worst case versions.

I. L-band Tabulations: Tables 1-6 (Best), 7-12 (Worst)

Tabulation of total orbit-integrated fluence distribuitons by L-bands for selected energy thresholds, in units of particles per square centimeter, normalized to 5 MeV and .5 MeV for protons and electrons, respectively.

The tables contain 36 L-bands of equal size covering the range from L=1.0 to L > 8.0 earth radii in constant increments of .2 earth radii.

II. Spectral Profiles: Tables 13-15 (Best),16-18 (Worst)

Tabulation of average orbit-integrated spectral distributions. Composite spectra are given in units of: fluxes per square centimeter per second, fluxes per square centimeter per day, and total fluences per specified mission duration (1 year). For the electrons, the latter are also given in terms of inner and outer zone contributions. Functionally derived differential fluxes are listed in the last columns for both species of particles.

Total orbit-integrated spectra in percent, for energy intervals ΔE corresponding to the energy levels of the L-band tables, are also given in terms of average instantaneous and daily intensities.

An exposure index (for the normalization energies used in the L-band tables) is listed for nine successive intensity ranges varying by one order of magnitude, in terms of processed exposure duration (in hours) and total number of particles accumulated while in that intensity range for the indicated number of hours.

III. Peaks and Totals Per Orbit: Tables 19-21 (Best), 22-24 (Worst)

These tables contain the absolute instantaneous peak fluxes and the total fluences accumulated during each successive revolution, as obtained from the nominal trajectories for the investigated flight duration (24 hours of mission time).

Specifically, there are nine columns on these tables. Column 1 is an orbit counting device, based on:

a) the orbit period when the trajectory is circular and lies in the equatorial plane;
b) the physical perigee in all elliptical flight-path cases; and,
c) the equatorial crossing for circular inclined trajectories.

Column 2 gives the peak flux. Columns 3, 4, and 5 indicate the spacecraft position in geocentric coordinates at which the predicted peak flux was encountered. Columns 6, 7, and 8 determine respectively the relative orbit time and the magnetic B-L coordinates for this event. For the purpose of orbital radiation studies, all simulated trajectories start at t_o=hours. Finally, the last column indicates the total predicted flux to be encountered during that particular orbit. It is advisable to disregard the last line on this table because many times that orbit (#15) is incomplete and the fluxes or positions shown do not correspond to true peaks.

IV. Time-Accounting and Exposure-Analysis: Tables 25-27

The "EXPOSURE-ANALYSIS" summary indicates what percent of its total lifetime T the satellite spends in "flux-free" regions of space, what percent of its total lifetime it spends in high intensity proton and electron domains, and while so exposed, what percent of its total flux it accumulates.

In the context of this study, the term "flux-free" applies to all regions of space where trapped particle fluxes are less than one proton or electron per square centimeter per second, having energies $E > 5$ MeV, and $E > .5$ MeV, respectively. By definition, this includes all regions external to the Van Allen radiation belts.

The concept of "trapped particle fluxes" is meant to include stably trapped, pseudo trapped, and transient fluxes, as long as they are part of or contained in the environment models used and, in the case of transients or pseudos, their sources are considered powerful enough to supply them continuously in substantial numbers.

Similarly, as "high intensity" are defined those regions of space where the instantaneous, integral, omnidirectional, trapped-particle flux is greater than 10^3 protons with energeis $E > 5.$ MeV, and greater than 10^5 electrons with energies $E > 5.$ MeV.

The values given in these tables are statistical averages, obtained over extended intervals of mission time. However, they may vary significantly

from one orbit to the next, when individual revolutions are considered.

The "TIME-ACCOUNT" breakdown shows what percent of its total time the satellite spends in the "inner zone" ($1.0 \leq L < 2.8$) and in the "outer zone" ($2.8 \leq L \leq 11.0$) electron trapping domains, and also the percent of time spent in regions external to the latter ($L > 11.0$).

It should be noted that the confinement of the outer zone within the boundary of the L=11.0 earth radii volume is arbitrary and has no physical meaning. It is intended only as a simplification to facilitate the calculations. The region considered "external" in this study ($L > 11.0$) is still partially a domain of the outer zone, at least as far out as L=12.0 earth radii, according to the current environment models.

A last item on this table: the inner zone time is further subdivided into two parts: the percentage of time spend outside ($L < 1.1$) and inside ($1.1 \leq L < 2.8$) the trapping domain.

V. Solar Proton Fluences and Exposure Factor: Tables 28-30

For the specified mission duration τ (printed in the sub-title), and dipole cut-off shell (L=5 earth radii, shown in the header), this table lists the solar proton fluence-spectra (in units of particles per square centimeter) at five discrete confidence levels Q (given at the top of each column).

The exposure factors (in percent of total mission duration) obtained from the geomagnetic shielding analysis are also listed for four dipole cut-off shell values (in earth radii).

VI. Total Dose and Components: Tables 31-33 (Best), 34-36 (Worst)

These tables list doses in units of $rads_{Al}$ as a function of aluminum shield thickness, given in three ways: range z in grams per square centimeter, depth t in millimeters, and depth t in mils.

Electron, bremsstrahlung, and proton contributions to the overall sum-total dose are given separately. Electron and proton doses are further broken down into their respective constituents; namely, inner zone and outer zone for the former, trapped and solar flare for the latter.

The specific mission duration for which the doses have been calculated is indicated in the table headline.

Caution: the AL-event solar flare protons are not contributed gradually over the investigated mission duration (τ = 1 year) but are imparted in toto in a relatively short burst, that is, within approximately 2-4 days per AL event.

B. Graphical Presentation

Some of the tabulated data are also plotted in Figures 1 to 36, and 43 to 60 with additional Figures 37 to 42 containing plots of flight path data. As with the tables, the computer plots are arranged in six sets, where again each set pertains to one specific type of data. The first three sets have two similar members for each trajectory investigated: one for each particle species. The last three sets contain only one member for every trajectory. However, late in the study, the original single members of the dose-plot set (#VI) were replaced with three graphs each (for respective depth ranges) in order to provide greater resolution at thin shields. The plots are also described and explained in reference 7.

Note: Sets I, II, III, and IV are double sets composed of best and worst case versions.

Finally, Figures 61 to 67 are special graphs relating to flux-free time, to times for which positional fluxes are greater than average fluxes, to trajectory flux profiles through the SAA, and to trajectory dose profiles through the SAA.

I. Time and Flux Histograms: Figures 1-6 (Best), 7-12 (Worst)

These plots show two curves superimposed on the same graph, namely one each for the variables "time" and "flux". Both are given on a semi-log scale as functions of the parameter L (earth radii), within the range $1 \leq L \leq 10$, and for constant L-bands of .1 earth radius width. The plots depict:

a) by a plain curve, the characteristic trajectory intensities as obtained from the orbital integration process in terms of averaged integral particle fluxes above a given energy.
b) by a contour marked with symbols, the percent total lifetime (%T) spent in each L interval.

The logarithmic ordinate relates to the time-flux variables. The printed numbers are powers of 10 and pertain to the fluxes; the scale values for the time curves are given in the upper part of the ordinate label: from 10^{-3} to 10^{2} percent of T, the type of particles, their integral energy, and the units, are all given in the lower part of the label. The label on the top of the graph identifies the trajectory.

II. Spectral Profiles: Figures 13-18 (Best), 19-24 (Worst)

A graphical presentation of the final composite spectral distribution, obtained from the orbital integration process. The plots are semi-log graphs, where the abscissa is a linear energy scale for integral particle energies E, in MeV, and the ordinate is a logarithmic scale for the fluxes, given in daily averages for energies greater than E; the printed scale values are powers of 10.

III. Peaks Per Orbit: Figures 25-30 (Best), 31-36 (Worst)

Here the absolute peak intensities, encountered per period (1 period = 1 revolution = 1 orbit), are plotted for the duration of the flight-time processed in the analysis. The logarithmic ordinate, with scale values in powers of 10, relates to instantaneous particle fluxes of the environment at the indicated energy thresholds, while the abscissa is a linear orbit enumeration.

IV. Trajectory World Map Projections: Figures 37-39

These graphs depict the surface trace of the geocentrically projected sub-satellite positions. The trajectories are plotted for several revolutions on a global map produced by a Miller Cylindrical Projection method. The contours of the continents have been omitted for clarity. The positions of equatorial crossing, of physical perigee, or of period commencement are indicated by numbers identifying the orbits shown in the graphs. For all trajectories, the distance between successive sequential numbers is a measure of the orbit precession.

V. Flight Path Tracing in B-L Space: Figures 40-42

Plots showing trajectory traces in B-L space on a semi-log scale. Several orbits are depicted, each identified by its sequential number. The magnetic equator is entered on all plots. The logarithmic ordinate relates to the field strength B in gauss; the printed values are exponents of 10. L is given in earth radii on the linear abscissa.

VI. Dose-Depth Curves: Figures 43-51 (Best), 52-60 (Worst)

Plots of final depth-dose values for the indicated mission duration. Normally, these plots show composite curves for bremsstrahlung, combined electrons (inner and outer zone), combined protons (trapped and solar flare), and sumtotal of all contributions. In the present case, the respective contours consist of inner and outer zone electrons separately and of trapped and solar flare protons, separately, of composite bremsstrahlung, and the sum-total.

For ease of use and in order to provide a greater resolution at the more sensitive range of depths, namely the thinner shields, three plots have been generated per processed altitude level (h=600, 900, 1200 km), for shield-ranges and subdivisions increasing by one order of magnitude.

The logarithmic ordinate, with scale values in powers of 10, relates to aluminum dose in units of rads. The linear abscissa is the shield thickness, given in three different units: range z in grams per square centimeter, depth t in millimeters, depth t in mils.

VII. Flux-Free Time and Electron Trapping Zone Exposure: Figure 61

Graph indicating the "Total Flux-Free Time in Percent of Mission Duration" for electrons and protons, and the "Percent of Mission Duration in Electron

Trapping Zones", both as a function of altitude.

VIII. Duration of Exposure-Severity: Figures 62-63

These graphs show, separately for electrons and protons, in percent of total mission duration vs energy, the intervals of time for which the positional instantaneous fluxes were greater than the orbit-integrated average instantaneous fluxes, by a factor of m. Curves for several values of integer multiples of m are plotted.

IX. Positional Flux Plot: Figures 64-65

Plots of positional instantaneous electron and proton fluxes versus time, for the most severe satellite pass through the SAA. Curves are given for several electron and proton threshold energies. The logarithmic ordinate relates to fluxes in units of particles per square centimeter per second while the linear abscissa indicates relative time in minutes.

The electron display was extended beyond the actual SAA pass, so as to provide coverage over one complete revolution ($\sim$ 103 min), in order to show the high latitude protrusions of the environment, the so-called "horns" The salient features are identified as to source, and approximate polar and equatorial regions are so labeled.

X. Positional Dose Plot: Figure 66

An arrangement similar to that of IX above, only here the curves relate to total dose (composite of all electron, trapped proton, and bremsstrahlung contributions), in units of rads-aluminum, given for different shield thicknesses of z, in grams per square centimeter

C. Geographic Mapping

Maps of instantaneous, positional, integral fluxes, or of positional to average flux ratios, are tables containing 168 latitude rows, covering the entire planned latitude range (81° N $\geq \vartheta \geq$ 86° S) in increments of $\Delta\vartheta$ =1°, and 15 longitude columns, corresponding to a longitude-range-per-table of 45° in increments of $\Delta\phi$ = 3°. Full azimuthal coverage is thereby achieved with eight two-page tables, comprising one set.

For each selected energy threshold of each particle species (nine electrons and nine protons for Spatial Flux Maps, seven electrons and seven protons for Global Comparison Maps) one such set of eight tables was generated at the 900 km altitude level. Thus, a total of 32 two-page sets of mapping tables was produced.

Every set initially contained its eight member-tables. However, for reasons of bulk reduction and printing economy, empty members were deleted from this report.

I. Spatial Flux Maps: Tables M1-M123

The data in these tables represent instantaneous, integral, omnidirectional, trapped particle fluxes, as yielded by the respective environment models for the indicated positions, in units of particles per square centimeter per second. The number "one" (1) was used to denote positions where no fluxes are predicted.

II. Global Comparison Maps: M124-M213

For the particular energies indicated, these tables outline the regions of space at the 900 kilometer altitude level, where the positional instantaneous fluxes are greater than the orbit integrated (or total) average instantaneous fluxes. It should be remembered that for the electrons the "total" averages are composite values, containing contributions from the inner and the outer zone visitations. It is not practical to compute "partial" averages, separately for the inner and the outer zones, neither would a comparison by zones be meaningful.

The dimensionless, truncated, integer part n of the ratios:

$$F_I/F_A = n.xxx$$

is printed in the tables according to the formula:

$$n \leq F_I/F_A < n + 1$$

where F_I is the positional instantaneous flux and F_A is the average instantaneous flux, both in units of particles per square centimeter per second.

The symbol "0" (zero) serves a dual purpose in this mapping: it is used for places where no instantaneous fluxes occur, as well as for fractional ratios of value less than one.

14. RESULTS: ANALYSIS AND DISCUSSION

In this section, some of the presented tabular or graphical study-results are discussed, with occasional comments as to their use, limits, and applications.

A. Spectral Profiles

Characteristic features of the near earth radiation environment are strong altitude and inclination dependencies. Here the presented external (surface incident) average daily intensities display only the former, which in the investigated altitude regime are most pronounced for the protons. However, as only one inclination was considered in this study, the data do not reflect the important effect of the latter. It should be noted that at high inclination values ($30° < i < 90°$) small changes in either

direction up or down, will not produce significant changes in flux levels and spectral distributions. The greatest inclination dependent variations occur in the range $0° \lesssim i \lesssim 30°$.

I. Protons: The protons exhibit relatively hard, almost uniform spectra. Average orbit-integrated intensities rise significantly with altitude. Over the energy range from E > 30 MeV to E > 500 MeV, the particle distribtuion per altitude for the "best" case prediction could well be expressed in an exponential form:

$$F = Fo \exp\left(\frac{50-E}{Eo}\right)$$

where F is the integral flux in units of particles per square centimeter per day, and E is the energy in MeV. Fo and Eo (in the same units as F and E) are given below for the three altitudes:

Altitude	Fo	Eo
600	2.585×10^6	99.21
900	1.224×10^7	105.88
1200	3.509×10^7	105.61

This representation is clearly favored by the data: it holds over the indicated energy range with a maximum deviation of less than 5%. The evaluation was performed for the best-case values. In order to obtain the worst-case counter parts, just multiply Fo by a factor of x2.

II. Electrons: The electrons show complex variable spectra. Average, orbit-integrated, composite (inner zone and outer zone) intensities rise non-uniformly with altitude, particularly at energies above 3.75 MeV with differences reaching up to several orders of magnitude at E > 6 MeV. Spectra extend to higher energies as height increases.

These composite electron distributions cannot be represented by either exponential or power law forms. The inner zone spectra fall rapidly off to zero flux in the energy range from 4 to 5 MeV and they are therefore more benign then their harder outer-zone counterparts, which extend to energies of about 7 MeV.

B. Peaks Per Orbit

The absolute peaks per revolution have been obtained for standard processing energies: E > 5. MeV for protons and E > .5 MeV for electrons. Other energy selections produce different peak curves in an inverse relationship: lower energies yield higher and more expanded contours, and vice versa.

Peak contours of inclined circular trajectories display amplitude variations and/or discontinuities (flux-free time) that follow periodic patterns based on the daily cycle of revolutions. For fixed energies, amplitudes and discontinuities are function of: (a) inclination i, and (b) altitude h.

Variations in either i or h may produce significant changes in the amplitude of the peak curves and in the duration of the discontinuities: up to several orders of magnitude for the former, and completely eliminating the latter.

For the investigated trajectories at the given, fixed, inclination (i=99°), the following observations can be made for the "best-case" data:

a) protons: the about three (3) flux-free orbits per day, afforded the 600 kilometer altitude level, completely disappear at 900 km and above. The maxima of the peak contours rise gradually by about one order of magnitude from 600 to 1200 km. The minima (or troughs) rise rapidly over the same altitude range, by about three orders of magnitude. The two extrema are always several orders of magnitude apart;

b) electrons: for these particles, the peak contours display only small and gradual changes: a slight rise in all contour features per altitude level. In antithesis to the proton peaks, the electron extrema lie close together: they are at most a factor of 5 apart. Also, the electron peaks start in the fifth order of magnitude range, even for the lowest altitude of 600 km.

Peak contours for the "worst-case" data are very similar in patterns and shape for both species of particles, except for the 1200 km electrons. These latter appear substantially different because of the greater contributions from the outer zone model AE17-HI and/or the lesser in extent but higher in intensity contributions from the inner zone model AE6, whose data has been multiplied by an average uncertainty factor of 5.

C. Flux-Free Time

Some comments on this topic have been provided in the previous section and in section 13/IV. Here a more detailed discussion will be given.

Flux-free time (FFT) intervals are an important feature of certain orbital configurations. They may occur over short orbit segments (partial FFT per period) or over the entire length of a revolution (total FFT per period). In terms of geomagnetic geometry, the FFT's establish the duration for which the trajectory lies outside the trapping domain of the corresponding particle species, evaluated at the given energies. Or conversely, they are a measure of the degree to which the trajectory is exposed to the charged particle trapping domains.

As indicated in the preceeding section (14/B), one manifestation of extended FFT occurrence is the sharp drop-off of the proton peak contours (Figures 25, 31) to the zero-flux levels. In the case of that particular trajectory, this happens for several orbits in the investigated study-duration of 24 hours. That is, for the entire length of the respective revolutions, no Van Allen belt radiation at all is to be encountered by the satellite, according to model predictions.

The number of consecutive flux-free orbits of circular trajectories is primarily a function of altitude and inclination and to a lesser degree

a function of particle energy. Of the investigated IRAS flight paths, and for the selected energies (electrons: E >.5 MeV, protons: E > 5. MeV), only the 600 kilometer altitude level yields about 3 completely flux-free revolutions per day, and for protons only. The total FFT, however, which includes contributions from partially exposed revolutions (see "Exposure Analysis," Tables #25, 26, and 27; also Figure 61) in percent of total mission duration can be summarized as follows:

Altitude (km)	Protons (E > 5. MeV)	Electrons (E > .5 MeV)
600	91%	63%
900	83%	54%
1200	68%	34%

Higher energies will yield longer FFT's because the more energetic particles occupy a smaller volume of space. As to "worst" and "best" cases, there is no substantial difference in the corresponding FFT.

D. Dose and Shielding

The calculated doses display features characteristic of the near earth radiation environment: at medium-to-high shield thicknesses, small contributions from relatively benign and low intensity electron spectra combined with major contributions from comparatively hard and intense proton spectra; at thin shield thicknesses the electrons predominate.

The proton doses prevail for all shield thicknesses greater than about 100-150 mils of aluminum; this is in the range of about 2 to 3 times the average satellite skin thicknesses (most common range: about 30-70 mils).

Significant is the fact that the proton dose is only a weak function of shield thickness, as it shows very little attenuation over the evaluated depth range. Thus, in order to get an appreciable reduction in the dose, say by one order of magnitude, a 20-fold increase in shield thickness over an average satellite skin is necessary. The same is true for the bremsstrahlung dose. However, in comparison to the proton contributions, the bremsstrahlung dose is so small (about 1-2 orders of magnitude lower) that it may be disregarded.

I. Decay and Degradation

The total annual doses obtained for each of the three investigated trajectories are comfortably low. In terms of electronics decay or materials degradation, the doses to be experienced at the 900 km altitude level inside the satellite, that is, behind a skin of about 4.5 mils of equivalent aluminum, are not severe even for the most sensitive components or equipment: about 5000 rads per year for the "best"-case evaluation and about 8000 rads per year for the "worst".

II. Contamination and Interference

The above statements do not imply that the direct or indirect effects of the radiation environment may not be a nuisance in terms of instrument interference or measurement contamination. If such is the case, some remedies may be available. In this context see also reference 10 (IUE study report).

III. Possible Improvements

In the event that the magnitude of total dose or degree of radiation penetration behind the skin of the satellite is of importance to the IRAS mission, four possibilities exist to reduce the radiation effects on instrument and components:

a) build or design an instrument less sensitive to radiation and construct the on-board and/or on-ground data processing software to remove or suppress radiation-induced noise
b) change the orbit by any combination of the elements eccentricity, altitude, and inclination so as to achieve a more benign environment
c) change the mission epoch: solar max for reduced proton intensities, solar min for reduced electron intensities
d) provide increased shielding either by geometry or by weight or by a combination of both;

by geometry: perform a 3-D analysis (solid angle sectoring) and rearrange other equipment on board the satellite in order to provide maximum protection to sensitive part over greatest possible fraction of solid angle.

by weight: place additional shields around sensitive part as needed.

Clearly, options (a), (b), and (d) are viable for IRAS.

E. Instantaneous Exposure Severity

The evaluation of the nominal IRAS flight-path (h=900 km) is given in Figures 62 and 63, for protons and electrons respectively. The graphs are self explanatory. Of interest may be the fact that the instantaneous electron exposures exceed the orbit-integrated average values for much longer relative durations than is the case with the protons.

F. Spatially Mapped Fluxes

The listed instantaneous positional intensities are in units of particles per square centimeter per second. The data are printed unaltered, as they are obtained from the models.

An inspection of these tables reveals an unusual feature which is most pronounced at the lower altitudes and for the more energetic particles; namely, regions of higher intensities that appear to the north of the South Atlantic Anomaly. At 900 kilometers these secondary electron peaks are less pronounced and are merged with the main body of the data, that

is, they are connected as is the case with the proton maps. These peak regions seem to be promontories or protrusions and resemble high energy "streamers". Whether they are artifices of the modelling process or whether they represent real "physical" features of the environment has not been determined. An interesting feature of the low energy proton maps (E > .04, .5, > 1 MeV) are the well known from the electrons high latitude "horns". These appear to follow the same pattern as for the electrons, indicating a kind of "outer zone" structure for these particles.

G. Positional Fluxes Through SAA

Protons: if low energy fluxes had been plotted, the corresponding high latitude "horns", discussed in the previous section (14/F), would have appeared on Figure 64.

Electrons: in Figure 66 note absence of the E > 5 MeV contour in the SAA: data derives from the inner zone, which does not contain particles in the energy range 5-7 MeV. In contrast, these energetic electrons are abundantly present in the outer zone, whose contribution is shown in the "horns".

H. Positional Doses Through SAA

The high dose values in the SAA for the thick shields ($z=5gm/cm^2$) are primarily due to the substantial trapped proton contributions. The doses at the thinner shields, in the SAA and the "horns", are mostly due to electrons.

I. Related Projects

Some of the radiation induced concerns and problems pertaining to the IRAS mission, are also shared by other projects, not unlike the IRAS in many respects of experiment hardware (with many similar operational requirements and instrument sensitivities), as for example:

the International Ultraviolet Explorer (IUE),
the Space Telescope (ST),
the High Energy Astronomy Observatory (HEAO), and
the Solar Maximum Mission (SMM).

They all have related concerns about instrument performance (interference from radiation environment: contamination from primary and secondary radiation effects) and they have parallel equipment hardware considerations.

It should be noted, that IUE has a singularly different trajectory. Its orbit is eccentric (perigee $\sim$ 25000 km, apogee $\sim$ 46000 km), inclined ($i = 29°$), and synchronous (period = 24 hours).

For all of the above listed projects, radiation studies have either been performed already or are now in progress. Specifically:

I. IUE: Study concluded, report issued.[13] Evaluation included (a) analysis of the space radiation environment and its effects on instruments and cameras, (b) determination of radiation-induced background current in the spectrograph cameras,[14] (c) performance of irradiated optical and electronic components used in astronomical satellites,[15] and (d) semiconductor device degradation.[16] Also considered were experimentally established data for ultraviolet transmittance of optical materials.[14, 15, 17]

II. ST: Study concluded, report published.[18]

III. HEAO: Initial study performed, report issued.[19] Evaluation included orbital flux integrations and geographic flux mapping only. Part of the data (trapped protons) obsolete. Work in progress on comprehensive, updated analysis.

IV. SMM: Study in progress, report to be issued in early 1979.

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ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AE17 FOR SOLAR MAXIMUM *** UNIFLUX OF 1970 **

** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 1.0 **

** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 5: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1980.0 **

** VEHICLE : IRAS 600 KM ** INCLINATION= 80DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** B/L UNIT TAPE: TL5362 ** PERIOD= 1.611 **

PROTONS

** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN 5.000MEV **

ENERGY LEVELS >(MEV)	L-BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L-BANDS *1.0-1.2*	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
.1000	1.07E 00	1.09E 00	1.14E 00	1.40E 00	2.78E 00	1.13E 01	2.53E 01	1.55E 02	7.59E 02	3.64E 03	6.00E 02	8.73E 04
2.000	1.02E 00	1.03E 00	1.07E 00	1.22E 00	1.76E 00	2.88E 00	3.63E 00	6.36E CC	1.15E 01	1.77E 01	3.30E 00	5.30E 01
5.000	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	0.0	1.00E 00
8.000	9.79E-01	9.63E-01	9.32E-01	8.44E-01	6.49E-01	4.28E-01	3.81E-01	2.95E-01	2.00E-01	1.49E-01	0.0	0.0
10.00	9.66E-01	9.38E-01	8.91E-01	7.60E-01	5.07E-01	2.61E-01	2.23E-01	1.61E-01	9.03E-02	5.75E-02	0.0	0.0
25.00	8.94E-01	8.25E-01	7.24E-01	5.18E-01	2.02E-01	3.77E-02	2.54E-02	1.22E-02	0.0	0.0	0.0	0.0
50.00	7.77E-01	6.82E-01	5.64E-01	3.55E-01	8.42E-02	6.50E-03	3.31E-03	0.0	0.0	0.0	0.0	0.0
100.0	5.61E-01	4.64E-01	3.23E-01	1.50E-01	1.77E-02	4.02E-04	0.0	0.0	0.0	0.0	0.0	0.0
500.0	1.83E-02	1.04E-02	2.37E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	3.92E 06	1.80E 06	1.26E 06	8.06E 05	5.89E 05	3.63E 05	2.36E 05	6.20E 04	2.68E 04	8.27E 03	0.0	6.62E 03

ENERGY LEVELS >(MEV)	L-BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L-BANDS *3.4-3.6*	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*
.1000	2.32E 05	0.0	3.68E 03	9.13E 04	3.41E 02	1.69E 04	2.70E 04	6.76E 03	7.81E 04	2.30E 03	1.72E 02	3.51E 01
2.000	1.14E 02	0.0	5.09E 00	1.26E 01	0.0	1.01E 00	0.0	0.0	0.0	0.0	0.0	0.0
5.000	1.00E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	4.67E 02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

ENERGY LEVELS >(MEV)	L-BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L-BANDS *5.8-6.0*	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-OVR*
.1000	7.04E 02	1.03E 02	1.21E 02	6.26E 00	1.92E 02	4.93E 00	0.0	0.0	0.0	0.0	0.0	0.0
2.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Table 1

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AE7 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 1.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY JENSEN CE 1973 WITH ALLMAG, MODEL 6: BARRACLOUGH ET. AL. 168-TERM 1975 & TIME= 1980.0 **
** VEHICLE : IRAS 600 KM ** INCLINATION= 80DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** B/L ORBIT TAPE: TC5362 ** PERIOD= 1.611 **

ELECTRONS LO

** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .5000MEV **

ENERGY LEVELS >(MEV)	L-BANDS *1.0-1.2*	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
.1000	2.18E 01	3.62E C1	4.43E 01	5.87E 01	7.21E 01	1.50E 02	1.89E 02	5.19E 01	1.23E 01	6.77E 00	6.06E 00	5.90E 00
.5000	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.000	1.09E-01	1.35E-C1	1.58E-01	6.51E-02	1.54E-02	1.03E-02	1.08E-02	2.40E-02	6.36E-02	3.38E-01	3.77E-01	4.55E-01
1.500	3.89E-C2	4.65E-C2	6.42E-02	2.35E-02	3.89E-C3	1.57E-03	1.55E-03	4.64E-03	2.05E-02	1.77E-01	1.93E-01	2.33E-01
2.000	2.17E-02	2.05E-C2	2.95E-02	9.26E-03	8.75E-04	3.51E-04	2.63E-04	8.13E-04	5.17E-03	9.25E-02	9.83E-02	1.20E-01
3.000	4.59E-03	1.97E-C3	2.00E-03	4.71E-04	3.13E-05	0.0	0.0	0.0	0.0	3.75E-02	3.88E-02	4.66E-02
4.000	0.0	1.30E-C5	1.29E-05	2.20E-06	0.0	0.0	0.0	0.0	0.C	9.51E-03	8.52E-03	9.05E-03
5.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.C	3.51E-04	3.74E-04	4.02E-04
6.000	0.0	C.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	1.34E 06	5.57E 07	8.53E C7	6.78E 07	3.57E 07	4.67E 06	2.75E 06	6.62E 05	3.50E 05	3.36E 06	2.97E 07	1.07E 08

ENERGY LEVELS >(MEV)	L-BANDS *3.4-3.6*	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*
.1000	6.34E CC	6.00E 00	4.64E 00	3.87E 00	3.51E C0	3.31E 00	3.43E 00	3.67E CC	3.65E 00	3.64E 00	3.92E 00	3.94E 00
.5000	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.000	4.88E-C1	5.27E-C1	5.21E-01	4.96E-01	4.90E-01	4.79E-01	4.64E-01	4.41E-01	4.17E-01	3.61E-01	3.14E-01	2.92E-01
1.500	2.46E-01	2.50E-C1	2.29E-01	2.05E-01	1.90E-01	1.75E-01	1.68E-01	1.55E-01	1.44E-01	1.26E-01	1.06E-01	9.40E-02
2.000	1.24E-01	1.19E-01	1.00E-01	8.43E-02	7.36E-02	6.38E-02	6.09E-02	5.76E-02	5.13E-02	4.40E-02	3.60E-02	3.03E-02
3.000	4.83E-02	4.67E-C2	3.80E-02	3.04E-02	2.36E-02	1.80E-02	1.54E-02	1.22E-02	9.13E-03	7.46E-03	5.24E-03	3.65E-03
4.000	8.81E-03	8.13E-C3	6.48E-03	5.20E-03	4.44E-03	3.63E-03	3.36E-03	3.01E-03	2.62E-03	2.24E-03	1.73E-03	1.21E-03
5.000	4.77E-C4	4.61E-C4	3.82E-04	3.14E-04	2.81E-04	2.28E-04	2.11E-04	1.87E-04	1.57E-04	1.30E-04	9.39E-05	6.32E-05
6.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.C	0.0	0.0	0.0
NORMFLUX=	1.51E 08	1.22E C8	1.92E C8	1.11E 08	7.55E C7	2.20E C8	1.61E 08	8.59E C7	5.74E 07	3.50E 07	4.67E 07	3.52E C7

ENERGY LEVELS >(MEV)	L-BANDS *5.8-6.0*	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-OVR*
.1000	3.95E CC	4.42E C0	5.06E 00	6.45E 00	7.12E 00	7.55E 00	9.26E 00	1.25E 01	1.65E 01	2.05E 01	3.33E 01	6.44E 01
.5000	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.000	2.81E-C1	2.59E-C1	2.41E-01	2.16E-01	1.96E-01	1.83E-01	1.60E-01	1.44E-01	1.33E-01	1.17E-01	8.93E-02	6.27E-02
1.500	8.82E-02	7.52E-C2	6.49E-02	5.18E-02	4.45E-02	3.99E-02	3.25E-02	2.66E-02	2.36E-02	2.06E-02	1.60E-02	8.74E-03
2.000	2.77E-02	2.19E-02	1.75E-02	1.24E-02	1.01E-02	8.72E-03	6.60E-03	4.54E-03	4.17E-03	3.60E-03	2.87E-03	1.44E-03
3.000	3.05E-03	2.10E-C3	1.52E-03	9.72E-04	6.52E-04	4.76E-04	2.68E-04	1.05E-04	0.0	0.0	0.0	0.0
4.000	1.02E-C3	6.81E-C4	4.75E-04	2.94E-04	1.66E-C4	9.26E-05	0.0	0.0	0.C	0.0	0.0	0.0
5.000	5.30E-C5	2.24E-C5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	4.82E 07	2.50E C7	1.15E 07	4.21E 06	2.13E 07	7.01E 06	5.79E 06	2.75E 06	6.54E 05	4.27E 05	8.99E 05	7.79E 05

Table 2

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AE17 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0 ; FOR INNER ZONE ELECTRONS (AE6) - UF= 1.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 2: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1980.0 **
** VEHICLE : IRAS 900 KM ** INCLINATION= 99DEG ** PERIGEE= 900KM ** APOGEE= 900KM ** B/L ORBIT TAPE: TD537b ** PERIOD= 1.716 **

PROTONS

** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN 5.000MEV **

ENERGY LEVELS >(MEV)	L-BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) *1.0-1.2*	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	L-BANDS *3.0-3.2*	*3.2-3.4*
.1000	1.76E 00	1.19E 00	1.19E 00	1.62E 00	3.54E 00	9.18E 00	2.86E 01	1.07E 02	6.14E 02	3.03E 03	1.76E 04	7.57E 04
2.000	1.2E 00	1.04E 00	1.11E 00	1.37E 00	2.11E 00	3.03E 00	4.28E 00	6.79E 00	1.24E 01	1.66E 01	3.06E 01	4.58E 01
5.000	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
8.000	9.80E-01	9.53E-01	8.92E-01	7.25E-01	5.55E-01	4.28E-01	3.40E-01	2.78E-01	1.88E-01	1.49E-01	5.11E-02	0.0
10.00	9.66E-01	9.22E-01	8.25E-01	5.85E-01	3.94E-01	2.66E-01	1.87E-01	1.46E-01	8.24E-02	5.86E-02	1.77E-02	0.0
25.00	8.86E-01	7.55E-01	6.04E-01	2.88E-01	1.26E-01	4.36E-02	1.88E-02	1.07E-02	0.0	0.0	0.0	0.0
50.00	7.66E-01	6.01E-01	4.55E-01	1.77E-01	5.08E-03	9.03E-03	3.64E-03	1.06E-03	0.0	0.0	0.0	0.0
100.0	5.55E-01	3.99E-01	2.52E-01	6.77E-02	1.16E-02	1.81E-03	1.91E-04	0.0	0.0	0.0	0.0	0.0
500.0	2.01E-02	1.12E-02	2.42E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	1.80E 06	2.46E 07	1.55E 07	5.58E 06	4.66E 06	2.43E 06	2.40E 06	7.74E 05	1.36E 05	7.46E 04	2.01E 04	6.09E 03

ENERGY LEVELS >(MEV)	L-BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) *3.4-3.6*	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	L-BANDS *5.4-5.6*	*5.6-5.8*
.1000	3.19E 05	1.23E 06	7.75E 05	5.85E 05	4.60E 05	1.49E 05	3.87E 05	3.31E 05	2.81E 05	9.77E 04	1.03E 05	8.74E 04
2.000	1.32E 02	3.66E 02	1.58E 02	5.3E 01	1.26E 01	3.17E 00	0.0	0.0	0.0	0.0	0.0	0.0
5.000	1.00E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	8.98E 02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

ENERGY LEVELS >(MEV)	L-BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) *5.8-6.0*	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	L-BANDS *7.8-8.0*	*8.0-OVR*
.1000	1.48E 04	7.69E 03	6.19E 02	3.10E 03	5.94E 02	6.23E 01	3.19E 00	0.0	0.0	0.0	0.0	0.0
2.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

ORIGINAL PAGE IS OF POOR QUALITY

Table 3

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AE7 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 1.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY JAVARA OF 1972 WITH ALLMAG, MODEL 2: BARRACLOUGH ET. AL. 168-TERM 1975 & TIME= 1980.0 **
** VEHICLE : IRAS 900 KM ** INCLINATION= 99DEG ** PERIGEE= 900KM ** APOGEE= 900KM ** B/L ORBIT TAPE: TD537C ** PERIOD= 1.716 **

ELECTRONS LO

** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .5000MEV **

ENERGY LEVELS >(MEV)	L-BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) *1.0-1.2*	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
.1000	2.09E 01	3.56E 01	4.18E 01	5.79E 01	7.11E 01	1.19E 02	1.77E 02	9.65E 01	1.31E 01	6.91E 00	5.84E 00	5.77E 00
.5000	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.000	1.04E-01	1.14E-01	1.55E-01	5.02E-02	1.62E-02	9.98E-03	1.08E-02	2.02E-02	5.77E-02	3.35E-01	3.90E-01	4.47E-01
1.500	3.55E-02	3.75E-02	6.13E-02	1.75E-02	4.24E-03	1.58E-03	1.53E-03	3.71E-03	1.82E-02	1.74E-01	1.99E-01	2.29E-01
2.000	1.01E-02	1.66E-02	2.76E-02	6.30E-03	9.89E-04	3.64E-04	2.76E-04	6.92E-04	4.68E-03	8.03E-02	1.01E-01	1.17E-01
3.000	3.53E-03	1.68E-03	1.89E-03	3.05E-04	4.21E-05	0.0	0.0	0.0	0.0	3.58E-02	4.02E-02	4.60E-02
4.00	0.	1.65E-05	1.38E-05	2.88E-06	0.0	0.0	0.0	0.0	0.0	9.20E-03	8.57E-03	8.98E-03
5.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.64E-03	3.90E-04	4.51E-04
6.000	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	6.53E 06	9.28E 08	9.36E 08	3.01E 08	1.51E 08	2.91E 07	1.38E 07	4.99E 06	1.13E 06	1.69E 07	1.24E 08	3.14E 08

ENERGY LEVELS >(MEV)	L-BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) *3.4-3.6*	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*
.1000	6.35E 00	5.85E 00	4.64E 00	3.88E 00	3.50E 00	3.33E 00	3.47E 00	3.68E 00	3.80E 00	3.86E 00	3.92E 00	3.94E 00
.5000	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.000	4.90E-01	5.32E-01	5.21E-01	4.97E-01	4.88E-01	4.82E-01	4.60E-01	4.40E-01	4.06E-01	3.53E-01	3.18E-01	2.99E-01
1.500	2.46E-01	2.50E-01	2.28E-01	2.05E-01	1.87E-01	1.77E-01	1.66E-01	1.58E-01	1.44E-01	1.22E-01	1.08E-01	9.82E-02
2.000	1.24E-01	1.18E-01	1.09E-01	8.47E-02	7.18E-02	6.54E-02	6.01E-02	5.68E-02	5.11E-02	4.24E-02	3.67E-02	3.32E-02
3.000	4.84E-02	4.58E-02	3.80E-02	3.06E-02	2.26E-02	1.90E-02	1.48E-02	1.21E-02	9.69E-03	7.01E-03	5.45E-03	4.18E-03
4.000	8.78E-03	7.97E-03	6.87E-03	5.23E-03	4.25E-03	3.76E-03	3.29E-03	2.98E-03	2.61E-03	2.13E-03	1.78E-03	1.39E-03
5.000	4.77E-04	4.52E-04	3.80E-04	3.16E-04	2.65E-04	2.35E-04	2.05E-04	1.84E-04	1.56E-04	1.21E-04	9.73E-05	7.30E-05
6.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	3.66E 08	3.17E 08	5.70E 08	3.74E 08	5.12E 08	2.04E 08	5.23E 08	2.19E 08	1.53E 08	1.58E 08	1.24E 08	1.48E 08

ENERGY LEVELS >(MEV)	L-BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) *5.8-6.0*	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-OVR*
.1000	3.96E 00	4.35E 00	5.20E 00	6.10E 00	6.98E 00	7.77E 00	9.24E 00	1.28E 01	1.71E 01	2.34E 01	3.28E 01	6.99E 01
.5000	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.000	2.79E-01	2.61E-01	2.39E-01	2.22E-01	2.01E-01	1.77E-01	1.60E-01	1.45E-01	1.32E-01	1.10E-01	9.06E-02	5.75E-02
1.500	8.73E-02	7.65E-02	6.36E-02	5.45E-02	4.61E-02	3.81E-02	3.25E-02	2.71E-02	2.34E-02	1.94E-02	1.61E-02	7.68E-03
2.000	2.73E-02	2.25E-02	1.69E-02	1.34E-02	1.06E-02	8.30E-03	6.69E-03	5.06E-03	4.15E-03	3.42E-03	2.88E-03	1.10E-03
3.000	2.97E-03	2.19E-03	1.45E-03	1.06E-03	7.19E-04	4.28E-04	2.71E-04	1.18E-04	3.07E-05	0.0	0.0	0.0
4.00	9.95E-04	7.15E- 4	4.51E-04	3.21E-04	1.93E-04	9.01E-05	3.34E-05	0.0	0.0	0.0	0.0	0.0
5.000	5.15E-05	3.00E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	1.19E 08	5.24E 07	3.01E 07	4.88E 07	3.65E 07	1.66E 07	1.71E 07	1.29E 07	4.04E 06	3.92E 06	2.16E 06	1.70E 06

Table 4

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AE17 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 1.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVAFA OF 1972 WITH ALLMAG, MODEL 5: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1980.0 **
** VEHICLE : IRAS 1260 KM ** INCLINATION= 900E-6 ** PERIGEE= 1200KM ** APOGEE= 1200KM ** B/L ORBIT TAPE: TC6403 ** PERIOD= 1.934 **

PROTONS

** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN 5.000MEV **

ENERGY LEVELS >(MEV)	L-BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L-BANDS *1.0-1.2*	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
.1000	1.07E 00	1.11E 00	1.23E 00	1.63E 00	3.39E 00	8.81E 00	3.29E 01	1.51E 02	6.30E 02	2.74E 03	2.01E 04	8.42E 04
2.000	1.02E 00	1.05E 00	1.15E 00	1.39E 00	2.07E 00	3.19E 00	4.65E 00	7.74E 00	1.25E 01	1.71E 01	3.34E 01	5.17E 01
5.000	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
8.000	9.80E-01	9.40E-01	8.72E-01	6.95E-01	5.36E-01	4.07E-01	3.21E-01	2.57E-01	1.66E-01	1.49E-01	6.88E-02	0.0
10.00	9.68E-01	9.00E-01	7.95E-01	5.39E-01	3.65E-01	2.44E-01	1.72E-01	1.30E-01	8.17E-02	5.67E-02	1.98E-02	0.0
25.00	8.98E-01	6.52E-01	5.40E-01	1.41E-01	1.83E-01	4.04E-02	1.69E-02	9.04E-03	1.67E-03	0.0	0.0	0.0
50.00	7.82E-01	5.39E-01	3.96E-01	1.49E-01	4.06E-02	9.58E-03	2.36E-03	6.65E-04	0.0	0.0	0.0	0.0
100.0	5.67E-01	3.50E-01	2.23E-01	6.15E-02	1.00E-02	1.90E-03	2.08E-04	0.0	0.0	0.0	0.0	0.0
500.0	1.87E-02	9.55E-03	2.59E-03	7.63E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	1.39E 06	4.27E 07	2.32E 07	9.76E 06	6.02E 06	4.13E 06	3.36E 06	6.23E 05	2.48E 05	8.05E 04	2.54E 04	4.71E 03

ENERGY LEVELS >(MEV)	L-BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L-BANDS *3.4-3.6*	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*
.1000	5.03E 05	5.63E 05	1.40E 06	1.25E 06	6.61E 05	3.04E 05	9.74E 03	5.05E 03	3.07E 03	3.07E 03	1.78E 03	3.63E 04
2.000	1.62E 02	2.78E 02	1.66E 02	6.52E 01	1.71E 01	4.36E 00	2.22E 00	0.0	0.0	0.0	0.0	0.0
5.000	1.00E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	1.72E 03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

ENERGY LEVELS >(MEV)	L-BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L-BANDS *5.8-6.0*	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-OVR*
.1000	8.42E 04	8.33E 02	2.17E 04	1.32E 04	1.27E 03	2.80E 02	1.91E 01	0.0	0.0	0.0	0.0	0.0
2.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Table 5

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AE7 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) = UF= 1.0; FOR INNER ZONE ELECTRONS (AE6) = UF= 1.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY JENSEN OF 1972 WITH ALLMAG, MODEL S: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1980.0 **
** VEHICLE : IRAS 1200 KM ** INCLINATION= 80DEG ** PERIGEE= 1200KM ** APOGEE= 1200KM ** B/L ORBIT TAPE: TP5403 ** PERIOD= 1.824 **

ELECTRONS LO

** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .5000MEV **

ENERGY LEVELS >(MEV)	L-BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) *1.0-1.2*	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	L-BANDS *3.0-3.2*	*3.2-3.4*
.1000	1.93E C1	3.68E C1	3.76E C1	5.43E 01	6.43E C1	1.66E 02	1.67E 02	6.63E 01	1.31E 01	6.66E 00	5.81E 00	5.82E 00
.5000	1.00E 00	1.00E C0	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.000	1.12E-01	1.02E-C1	1.65E-01	5.68E-02	1.68E-02	9.95E-03	1.07E-02	2.35E-02	5.75E-02	3.33E-01	3.92E-01	4.50E-01
1.500	3.89E-02	5.22E-C2	6.46E-02	2.02E-02	4.43E-03	1.61E-03	1.49E-03	4.66E-03	1.61E-02	1.73E-01	1.99E-01	2.30E-01
2.000	2.11E-C2	1.41E-C2	2.89E-C2	7.61E-03	1.02E-03	3.69E-04	2.76E-04	8.54E-04	4.67E-03	9.03E-02	1.01E-01	1.18E-01
3.000	3.74E-03	1.64E-C3	2.04E-03	3.74E-04	4.64E-05	0.0	0.0	0.0	1.50E-04	3.61E-02	4.03E-02	4.61E-02
4.000	0.0	1.52E-C5	1.48E-05	4.75E-06	0.0	0.0	0.0	0.0	0.0	9.45E-03	8.58E-03	8.98E-03
5.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.02E-04	3.91E-04	4.53E-04
6.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	4.13E C6	1.84E C9	1.47E 09	4.09E 08	1.60E 08	4.25E 07	1.68E 07	3.58E 06	1.67E 06	1.10E 07	9.19E 07	2.14E 08

ENERGY LEVELS >(MEV)	L-BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) *3.4-3.6*	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	L-BANDS *5.4-5.6*	*5.6-5.8*
.1000	6.36E 00	6.82E C0	4.66E 00	3.08E 00	3.55E 00	3.38E 00	3.46E 00	3.67E 00	3.60E 00	3.66E 00	3.96E 00	3.94E 00
.5000	1.00E 00	1.00E C0	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.000	4.91E-01	5.26E-C1	5.22E-01	4.55E-01	4.89E-01	4.79E-01	4.62E-01	4.40E-01	4.08E-01	3.56E-01	3.16E-01	3.01E-01
1.500	2.46E-01	2.50E-C1	2.29E-01	2.02E-01	1.89E-01	1.75E-01	1.67E-01	1.58E-01	1.45E-01	1.23E-01	1.07E-01	9.91E-02
2.000	1.24E-01	1.19E-C1	1.01E-01	8.27E-02	7.34E-02	6.39E-02	6.04E-02	5.66E-02	5.14E-02	4.25E-02	3.63E-02	3.26E-02
3.000	4.84E-C2	4.67E-C2	3.81E-02	2.93E-02	2.36E-C2	1.81E-02	1.51E-02	1.22E-02	9.78E-03	7.16E-03	5.33E-03	4.30E-03
4.000	8.76E-03	8.12E-C3	6.49E-03	5.07E-03	4.36E-C3	3.64E-03	3.31E-03	2.98E-03	2.62E-03	2.15E-03	1.75E-03	1.43E-03
5.000	4.76E-C4	4.57E-C4	3.82E-04	3.08E-04	2.70E-04	2.27E-04	2.06E-04	1.84E-04	1.58E-C4	1.22E-04	9.52E-05	7.55E-05
6.000	0.0	0.0	5.20E-07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	2.60E 08	2.48E C8	2.45E 08	3.49E 08	2.14E C8	2.75E C8	2.77E 08	1.38E C8	2.47E 08	8.13E 07	7.49E 07	5.72E 07

ENERGY LEVELS >(MEV)	L-BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) *5.8-6.0*	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	L-BANDS *7.8-8.0*	*8.0-OVR*
.1000	3.96E 00	4.49E C0	5.31E 00	6.23E 00	7.17E 00	7.72E 00	9.29E 00	1.22E 01	1.74E 01	2.66E 01	3.70E 01	6.64E 01
.5000	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.000	2.79E-01	2.57E-C1	2.37E-01	2.19E-01	1.95E-01	1.78E-01	1.60E-01	1.47E-01	1.30E-01	1.05E-01	9.03E-02	5.90E-02
1.500	8.72E-02	7.40E-C2	6.27E-02	5.35E-02	4.40E-02	3.85E-02	3.25E-02	2.79E-02	2.32E-02	1.65E-02	1.62E-02	7.62E-03
2.000	2.73E-C2	2.13E-C2	1.66E-02	1.30E-02	9.93E-03	8.33E-03	6.60E-03	5.30E-03	4.12E-03	3.28E-03	2.90E-03	1.19E-03
3.000	2.97E-03	2.04E-C3	1.43E-03	1.03E-03	6.33E-04	4.43E-04	2.74E-04	1.63E-04	4.69E-05	0.0	0.0	0.0
4.000	9.94E-04	6.62E-C4	4.46E-C4	3.10E-04	1.61E-04	9.52E-05	3.70E-05	0.0	0.0	0.0	0.0	0.0
5.000	5.14E-05	2.86E-C5	5.58E-06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	7.57E C7	8.93E C6	5.91E 07	4.67E 07	1.82E 07	1.14E 07	1.03E 07	3.39E 06	3.17E 06	2.23E 06	1.45E 06	1.60E 06

Table 6

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AE17 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 *
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 2.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 5.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY JENSEN OF 1972 WITH ALLMAG, MODEL 5: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1980.0 **
** VEHICLE = IRAS 600 KM ** INCLINATION= 80DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** B/L ORBIT TAPE: TD5362 ** PERIOD= 1.611 **

PROTONS

** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN 5.000MEV **

ENERGY LEVELS >(MEV)	L-BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) *1.0-1.2*	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
.1000	1.07E 00	1.05E 00	1.14E 00	1.40E 00	2.78E 00	1.13E 01	2.53E 01	1.55E 02	7.59E 02	3.64E 03	1.20E 03	8.73E 04
2.000	1.02E 00	1.03E 00	1.07E 00	1.22E 00	1.76E 00	2.88E 00	3.63E 00	6.36E 00	1.15E 01	1.77E 01	6.61E 00	5.30E 01
5.000	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	0.0	1.00E 00
8.000	9.79E-01	9.63E-01	9.32E-01	8.44E-01	6.49E-01	4.28E-01	3.81E-01	2.95E-01	2.00E-01	1.49E-01	0.0	0.0
10.00	9.66E-01	9.38E-01	8.91E-01	7.60E-01	5.07E-01	2.61E-01	2.23E-01	1.61E-01	9.03E-02	5.75E-02	0.0	0.0
25.00	8.94E-01	8.25E-01	7.24E-01	5.18E-01	2.02E-01	3.77E-02	2.54E-02	1.52E-02	0.0	0.0	0.0	0.0
50.00	7.77E-01	6.82E-01	5.64E-01	3.55E-01	8.42E-02	6.50E-03	3.31E-03	0.0	0.0	0.0	0.0	0.0
100.0	5.61E-01	4.64E-01	3.23E-01	1.50E-01	1.77E-02	4.02E-04	0.0	0.0	0.0	0.0	0.0	0.0
500.0	1.83E-02	1.04E-02	2.37E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	7.83E 05	3.60E 06	2.52E 06	1.61E 06	1.18E 06	7.06E 05	4.51E 05	1.04E 05	5.36E 04	1.65E 04	0.0	1.32E 03

ENERGY LEVELS >(MEV)	L-BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) *3.4-3.6*	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*
.1000	2.32E 05	0.0	7.35E 03	1.83E 05	6.82E 02	3.39E 04	5.41E 04	1.35E 04	1.56E 05	4.59E 03	3.45E 02	7.01E 01
2.000	1.14E 02	0.0	1.02E 01	2.53E 01	0.0	2.01E 00	0.0	0.0	0.0	0.0	0.0	0.0
5.000	1.00E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	9.34E 02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

ENERGY LEVELS >(MEV)	L-BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) *5.8-6.0*	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-OVR*
.1000	1.41E 03	2.06E 02	2.41E 02	1.24E 01	3.85E 02	9.87E 00	0.0	0.0	0.0	0.0	0.0	0.0
2.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Table 7

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AE17 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 2.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 5.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 5: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1980.0 **
** VEHICLE : IRAS 600 KM ** INCLINATION= 80DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** B/L ORBIT TAPE: TD5362 ** PERIOD= 1.611 **

********** ELECTRONS HI **********
** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .500MEV **

ENERGY LEVELS >(MEV)	L-BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) *1.0-1.2*	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
.1000	2.18E 01	3.62E 01	4.43E 01	5.87E 01	7.21E 01	1.50E 02	1.89E 02	5.19E 01	1.23E 01	6.77E 00	6.06E 00	5.90E 00
.5000	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.000	1.09E-01	1.35E-01	1.58E-01	6.51E-02	1.54E-02	1.03E-02	1.08E-02	2.40E-02	6.36E-02	3.38E-01	3.77E-01	6.55E-01
1.500	3.89E-02	4.65E-02	6.42E-02	2.35E-02	3.89E-03	1.57E-03	1.55E-03	4.64E-03	2.09E-02	1.77E-01	1.90E-01	2.55E-01
2.000	2.17E-02	2.05E-02	2.95E-02	9.26E-03	8.75E-04	3.91E-04	2.63E-04	8.13E-04	5.17E-03	9.29E-02	1.02E-01	1.44E-01
3.000	4.59E-03	1.97E-03	2.00E-03	4.71E-04	3.13E-05	0.0	0.0	0.0	0.0	4.08E-02	4.36E-02	5.99E-02
4.000	0.0	1.30E-05	1.29E-05	2.20E-06	0.0	0.0	0.0	0.0	0.0	1.24E-02	1.30E-02	1.94E-02
5.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.01E-03	3.24E-03	5.52E-03
6.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.10E-04	3.33E-04	5.81E-04
NORMFLUX=	6.69E 06	2.78E 06	4.26E 06	3.39E 08	1.78E 08	2.33E 07	1.37E 07	3.31E 06	1.95E 06	3.36E 06	2.97E 07	1.07E 08

ENERGY LEVELS >(MEV)	L-BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) *3.4-3.6*	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*
.1000	6.34E 00	6.00E 00	4.64E 00	3.87E 00	3.51E 00	3.31E 00	3.43E 00	3.67E 00	3.80E 00	3.84E 00	3.92E 00	3.94E 00
.5000	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.000	4.88E-01	5.27E-01	5.21E-01	4.56E-01	4.90E-01	4.79E-01	4.64E-01	4.41E-01	4.07E-01	3.61E-01	3.14E-01	2.92E-01
1.500	2.88E-01	3.24E-01	3.63E-01	2.51E-01	2.94E-01	2.71E-01	2.42E-01	1.86E-01	1.43E-01	1.38E-01	1.17E-01	9.63E-02
2.000	1.70E-01	2.00E-01	2.00E-01	1.71E-01	1.34E-01	1.12E-01	9.72E-02	7.06E-02	6.28E-02	4.97E-02	4.17E-02	3.18E-02
3.000	6.94E-02	7.63E-02	7.38E-02	6.36E-02	4.89E-02	3.70E-02	3.05E-02	2.28E-02	1.72E-02	1.21E-02	7.78E-03	4.89E-03
4.000	2.42E-02	3.09E-02	3.72E-02	3.42E-02	2.37E-02	1.62E-02	1.27E-02	8.95E-03	6.56E-03	4.66E-03	2.98E-03	1.82E-03
5.000	7.00E-03	8.73E-03	9.01E-03	7.34E-03	5.19E-03	3.58E-03	2.93E-03	2.19E-03	1.61E-03	1.11E-03	6.88E-04	4.06E-04
6.000	6.98E-04	7.70E-04	7.10E-04	5.81E-04	4.51E-04	3.25E-04	2.70E-04	2.07E-04	1.54E-04	1.09E-04	6.82E-05	4.10E-05
NORMFLUX=	1.51E 08	1.22E 08	1.92E 08	1.11E 08	7.95E 07	2.20E 08	1.61E 08	8.59E 07	9.74E 07	3.50E 07	4.67E 07	3.52E 07

ENERGY LEVELS >(MEV)	L-BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) *5.8-6.0*	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-OVR*
.1000	3.95E 00	4.42E 00	5.06E 00	6.45E 00	7.12E 00	7.55E 00	9.26E 00	1.29E 01	1.69E 01	2.09E 01	3.33E 01	6.44E 01
.5000	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.000	2.81E-01	2.99E-01	2.41E-01	2.16E-01	1.98E-01	1.65E-01	1.60E-01	1.34E-01	1.17E-01	1.09E-01	9.40E-02	6.74E-02
1.500	8.91E-02	7.52E-02	6.49E-02	5.18E-02	4.47E-02	4.02E-02	3.25E-02	2.58E-02	2.21E-02	1.98E-02	1.65E-02	9.15E-03
2.000	2.83E-02	2.19E-02	1.75E-02	1.24E-02	1.01E-02	8.72E-03	6.60E-03	4.96E-03	4.17E-03	3.60E-03	2.87E-03	1.44E-03
3.000	3.89E-03	2.48E-03	1.68E-03	9.77E-04	6.52E-04	4.76E-04	2.68E-04	1.05E-04	0.0	0.0	0.0	0.0
4.000	1.43E-03	8.57E-04	5.42E-04	2.56E-04	1.66E-04	9.14E-05	0.0	0.0	0.0	0.0	0.0	0.0
5.000	3.18E-04	1.80E-04	1.08E-04	3.47E-05	9.51E-06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.000	3.33E-05	5.45E-06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	4.82E 07	2.50E 07	1.15E 07	4.21E 06	2.13E 07	7.01E 06	5.79E 06	2.75E 06	6.54E 05	4.27E 05	8.99E 05	7.79E 05

Table 8

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AE17 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 2.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 5.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY JENSEN OF 1972 WITH ALLMAG. MODEL 2: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1980.0 **
** VEHICLE : IRAS 900 KM ** INCLINATION= 99DEG ** PERIGEE= 900KM ** APOGEE= 900KM ** B/L ORBIT TAPE: TD5376 ** PERIOD= 1.716 **

PROTONS

** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN 5.000MEV **

ENERGY LEVELS >(MEV)	L-BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) *1.0-1.2*	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
.1000	1.06E 00	1.10E 00	1.19E 00	1.62E 00	3.54E 00	9.18E 00	2.86E 01	1.07E 02	6.14E 02	3.03E 03	1.76E 04	7.57E 04
2.000	1.02E 00	1.04E 00	1.11E 00	1.37E 00	2.11E 00	3.03E 00	4.28E 00	6.79E 00	1.24E 01	1.66E 01	3.06E 01	4.58E 01
5.000	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
8.000	9.80E-01	9.53E-01	8.92E-01	7.25E-01	5.55E-01	4.28E-01	3.40E-01	2.78E-01	1.88E-01	1.49E-01	5.11E-02	0.0
10.00	9.66E-01	9.22E-01	8.25E-01	5.85E-01	3.94E-01	2.66E-01	1.87E-01	1.46E-01	8.24E-02	5.86E-02	1.77E-02	0.0
25.00	8.86E-01	7.55E-01	6.04E-01	2.88E-01	1.26E-01	4.36E-02	1.88E-02	1.07E-02	0.0	0.0	0.0	0.0
50.00	7.66E-01	6.01E-01	4.55E-01	1.77E-01	5.06E-02	9.92E-03	2.64E-03	1.06E-03	0.0	0.0	0.0	0.0
100.0	5.55E-01	3.99E-01	2.52E-01	6.77E-02	1.16E-02	1.81E-03	1.91E-04	0.0	0.0	0.0	0.0	0.0
500.0	2.01E-02	1.12E-02	2.42E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	3.60E 06	4.92E 07	3.10E 07	1.12E 07	9.32E 06	4.87E 06	4.81E 06	1.55E 06	2.71E 05	1.49E 05	4.03E 04	1.22E 04

ENERGY LEVELS >(MEV)	L-BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) *3.4-3.6*	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*
.1000	3.19E 05	2.46E 06	1.55E 06	1.17E 05	9.21E 05	2.98E 05	7.75E 05	6.62E 05	5.61E 05	1.95E 05	2.07E 05	1.75E 05
2.000	1.32E 02	7.31E 02	3.00E 02	1.06E 02	2.53E 01	6.34E 00	0.0	0.0	0.0	0.0	0.0	0.0
5.000	1.00E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	1.79E 03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

ENERGY LEVELS >(MEV)	L-BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) *5.8-6.0*	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-OVR*
.1000	2.97E 04	1.54E 04	1.24E 03	6.19E 03	1.19E 03	1.25E 02	6.38E 00	0.0	0.0	0.0	0.0	0.0
2.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 9

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AE17 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PRCTONS (AP8) - UF= 2.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 5.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 2: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1980.0 **
** VEHICLE : IRAS 900 KM ** INCLINATION= 99DEG ** PERIGEE= 900KM ** APOGEE= 900KM ** B/L ORBIT TAPE: TD5376 ** PERIOD= 1.716 **

ELECTRONS HI

** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .5000MEV **

ENERGY LEVELS >(MEV)	L-BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L-BANDS *1.0-1.2*	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
.1000	2.09E 01	3.55E 01	4.18E 01	5.79E 01	7.11E 01	1.19E 02	1.77E 02	9.65E 01	1.31E 01	6.91E 00	5.84E 00	5.77E 00
.5000	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.000	1.04E-01	1.14E-01	1.55E-01	5.02E-02	1.62E-02	9.98E-03	1.08E-02	2.02E-02	5.77E-02	3.35E-01	3.90E-01	4.47E-01
1.500	3.55E-02	3.75E-02	6.13E-02	1.75E-02	4.24E-03	1.58E-03	1.53E-03	3.71E-03	1.82E-02	1.74E-01	2.04E-01	2.48E-01
2.000	1.91E-02	1.65E-02	2.76E-02	6.30E-03	9.89E-04	3.64E-04	2.76E-04	6.92E-04	4.68E-03	9.03E-02	1.06E-01	1.38E-01
3.000	3.33E-03	1.68E-03	1.89E-03	3.05E-03	4.21E-05	0.0	0.0	0.0	0.0	3.92E-02	4.53E-02	6.75E-02
4.000	0.0	1.65E-05	1.38E-05	2.88E-06	0.0	0.0	0.0	0.0	0.0	1.16E-02	1.37E-02	1.85E-02
5.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.75E-03	3.50E-03	5.19E-03
6.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.68E-04	3.76E-04	5.48E-04
NORMFLUX=	3.26E 07	4.64E 06	4.68E 06	1.61E 06	7.57E 08	1.46E 08	6.88E 07	2.49E 07	5.63E 06	1.60E 07	1.24E 08	3.14E 08

ENERGY LEVELS >(MEV)	L-BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L-BANDS *3.4-3.6*	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*
.1000	6.35E 00	5.85E 00	4.64E 00	3.88E 00	3.50E 00	3.33E 00	3.47E 00	3.68E 00	3.80E 00	3.86E 00	3.92E 00	3.94E 00
.5000	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.000	4.90E-01	5.32E-01	5.21E-01	4.97E-01	4.88E-01	4.82E-01	4.60E-01	4.40E-01	4.06E-01	3.53E-01	3.18E-01	2.99E-01
1.500	2.90E-01	3.30E-01	3.23E-01	2.92E-01	2.57E-01	2.38E-01	2.08E-01	1.85E-01	1.62E-01	1.33E-01	1.15E-01	1.02E-01
2.000	1.71E-01	2.04E-01	2.00E-01	1.72E-01	1.35E-01	1.17E-01	9.41E-02	7.80E-02	6.47E-02	5.01E-02	4.12E-02	3.46E-02
3.000	6.99E-02	7.67E-02	7.37E-02	6.42E-02	4.71E-02	3.93E-02	2.92E-02	3.26E-02	1.71E-02	1.13E-02	8.19E-03	5.83E-03
4.000	2.45E-02	3.19E-02	3.72E-02	3.46E-02	2.25E-02	1.76E-02	1.21E-02	8.84E-03	6.54E-03	4.32E-03	3.14E-03	2.19E-03
5.000	7.07E-03	3.97E-03	9.00E-03	7.43E-03	4.89E-03	3.85E-03	2.80E-03	2.16E-03	1.61E-03	1.02E-03	7.27E-04	4.96E-04
6.000	7.02E-04	7.69E-04	7.08E-04	5.86E-04	4.21E-04	3.46E-04	2.58E-04	2.03E-04	1.53E-04	9.93E-05	7.19E-05	4.90E-05
NORMFLUX=	3.66E 08	3.17E 08	5.70E 08	3.74E 08	5.12E 08	2.04E 08	5.23E 08	2.19E 08	1.53E 08	1.58E 08	1.24E 08	1.48E 08

ENERGY LEVELS >(MEV)	L-BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L-BANDS *5.8-6.0*	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-OVR*
.1000	3.96E 00	4.35E 00	5.20E 00	6.10E 00	6.98E 00	7.77E 00	9.24E 00	1.28E 01	1.71E 01	2.34E 01	3.28E 01	6.99E 01
.5000	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.000	2.79E-01	2.61E-01	2.39E-01	2.22E-01	2.02E-01	1.80E-01	1.60E-01	1.35E-01	1.18E-01	1.06E-01	9.55E-02	6.14E-02
1.500	8.80E-02	7.66E-02	6.36E-02	5.45E-02	4.62E-02	3.84E-02	3.25E-02	2.62E-02	2.21E-02	1.90E-02	1.66E-02	8.00E-03
2.000	2.78E-02	2.25E-02	1.69E-02	1.34E-02	1.06E-02	8.20E-03	6.59E-03	5.06E-03	4.15E-03	3.42E-03	2.88E-03	1.19E-03
3.000	3.78E-03	2.60E-03	1.59E-03	1.09E-03	7.19E-04	4.28E-04	2.71E-04	1.18E-04	3.07E-05	0.0	0.0	0.0
4.000	1.39E-03	9.11E-04	5.10E-04	3.31E-04	1.93E-04	8.96E-05	3.27E-05	0.0	0.0	0.0	0.0	0.0
5.000	3.09E-04	1.95E-04	9.91E-05	6.45E-05	2.10E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.000	3.24E-05	1.26E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	1.19E 08	6.24E 07	3.01E 07	4.88E 07	3.65E 07	1.66E 07	1.71E 07	1.29E 07	4.04E 06	3.92E 06	2.16E 06	1.70E 06

ORIGINAL PAGE IS
OF POOR QUALITY

Table 10

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AE17 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTOR= (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 2.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 5.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MODEL 5: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1980.0 **
** VEHICLE : IRAS 1200 KM ** INCLINATION= 80DEG ** PERIGEE= 1200KM ** APOGEE= 1200KM ** B/L ORBIT TAPE: TD5403 ** PERIOD= 1.824 **

PROTONS

** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN 5.000MEV **

ENERGY LEVELS >(MEV)	L-BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) *1.0-1.2*	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
.1000	1.07E 00	1.11E 00	1.23E 00	1.63E 00	3.39E 01	8.81E 00	3.29E 01	1.51E 02	6.30E 02	2.74E 03	2.01E 04	8.42E 04
2.000	1.02E 00	1.05E 00	1.13E 00	1.39E 00	2.07E 00	3.19E 00	4.65E 00	7.74E 00	1.25E 01	1.71E 01	3.34E 01	5.17E 01
5.000	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
8.000	9.86E-01	9.40E-01	8.72E-01	6.59E-01	5.36E-01	4.07E-01	3.21E-01	2.57E-01	1.88E-01	1.49E-01	6.88E-02	0.0
10.00	9.68E-01	9.00E-01	7.95E-01	5.29E-01	3.65E-01	2.44E-01	1.72E-01	1.30E-01	8.17E-02	5.87E-02	1.98E-02	0.0
25.00	8.88E-01	6.52E-01	5.40E-01	2.41E-01	1.03E-01	4.84E-02	1.92E-02	9.04E-03	1.57E-03	0.0	0.0	0.0
50.00	7.82E-01	5.39E-01	3.56E-01	1.49E-01	4.06E-02	9.58E-03	2.38E-03	8.89E-04	0.0	0.0	0.0	0.0
100.0	5.67E-01	3.50E-01	2.23E-01	6.15E-02	1.00E-02	1.90E-03	2.08E-04	0.0	0.0	0.0	0.0	0.0
500.0	1.87E-02	9.55E-03	2.59E-03	7.63E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	2.77E 06	8.53E 07	4.65E 07	1.55E 07	1.20E 07	8.26E 06	6.72E 06	1.25E 06	4.96E 05	1.62E 05	5.07E 04	9.41E 03

ENERGY LEVELS >(MEV)	L-BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) *3.4-3.6*	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*
.1000	5.03E 05	1.13E 06	2.79E 06	2.50E 06	1.32E 05	6.09E 05	1.95E 06	1.02E 06	1.93E 06	6.13E 05	3.56E 05	7.25E 04
2.000	1.62E 02	6.55E 02	3.13E 02	1.30E 02	3.42E 01	8.72E 00	4.44E 00	0.0	0.0	0.0	0.0	0.0
5.000	1.00E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	3.44E 03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

ENERGY LEVELS >(MEV)	L-BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) *5.8-6.0*	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-OVR*
.1000	1.68E 05	1.67E 03	4.33E 04	2.64E 04	2.55E 03	5.60E 02	3.83E 01	0.0	0.0	0.0	0.0	0.0
2.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 11

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AEI7 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) = UF= 2.0; FOR INNER ZONE ELECTRONS (AE6) = UF= 5.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 5: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1980.0 **
** VEHICLE : IRAS 1200 KM ** INCLINATION= 90DEG ** PERIGEE= 1200KM ** APOGEE= 1200KM ** B/L ORBIT TAPE: TD5403 ** PERIOD= 1.824 **

** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .5000MEV **

ELECTRONS HI

ENERGY LEVELS >(MEV)	L-BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) *1.0-1.2*	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	L-BANDS *3.0-3.2*	*3.2-3.4*
.1000	1.92E 01	3.58E 01	3.76E 01	6.43E 01	6.43E 01	1.06E 02	1.67E 02	6.62E 01	1.31E 01	6.96E 00	5.81E 00	5.82E 00
.5000	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.000	1.12E-01	1.02E-01	1.65E-01	5.68E-02	1.68E-02	9.95E-03	1.07E-02	2.35E-02	5.75E-02	3.33E-01	3.92E-01	4.50E-01
1.500	3.89E-02	3.22E-02	6.46E-02	2.02E-02	4.43E-03	1.61E-03	1.49E-03	4.66E-03	1.81E-02	1.73E-01	2.04E-01	2.51E-01
2.000	2.11E-02	1.41E-02	2.89E-02	7.61E-03	1.02E-03	3.69E-04	2.76E-04	8.54E-04	4.67E-03	9.03E-02	1.07E-01	1.40E-01
3.000	3.74E-03	1.86E-03	2.04E-03	3.74E-04	4.54E-05	0.0	0.0	0.0	1.50E-04	3.93E-02	4.55E-02	5.83E-02
4.000	0.0	1.52E-05	1.48E-05	4.75E-06	0.0	0.0	0.0	0.0	0.0	1.18E-02	1.37E-02	1.88E-02
5.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.82E-03	3.52E-03	5.30E-03
6.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.83E-04	3.78E-04	5.58E-04
NORMFLUX=	2.07E 07	9.19E 06	7.34E 06	2.04E 06	7.98E 05	2.12E 05	8.41E 04	1.79E 04	8.33E 03	1.10E 04	9.19E 04	2.14E 05

ENERGY LEVELS >(MEV)	L-BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) *3.4-3.6*	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	L-BANDS *5.4-5.6*	*5.6-5.8*
.1000	6.36E 00	6.02E 00	4.66E 00	3.62E 00	3.55E 00	3.32E 00	3.45E 00	3.67E 00	3.80E 00	3.86E 00	3.92E 00	3.94E 00
.5000	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.000	4.91E-01	5.26E-01	5.22E-01	4.55E-01	4.89E-01	4.79E-01	4.62E-01	4.40E-01	4.08E-01	3.56E-01	3.16E-01	3.01E-01
1.500	2.91E-01	3.23E-01	3.24E-01	2.67E-01	2.61E-01	2.32E-01	2.10E-01	1.86E-01	1.63E-01	1.35E-01	1.13E-01	1.03E-01
2.000	1.72E-01	1.99E-01	2.00E-01	1.66E-01	1.40E-01	1.13E-01	9.59E-02	7.86E-02	6.52E-02	5.09E-02	4.06E-02	3.52E-02
3.000	7.02E-02	7.61E-02	7.38E-02	6.14E-02	4.91E-02	3.72E-02	3.00E-02	2.28E-02	1.73E-02	1.16E-02	7.97E-03	6.05E-03
4.000	2.47E-02	3.06E-02	3.71E-02	3.25E-02	2.39E-02	1.64E-02	1.25E-02	8.94E-03	6.62E-03	4.45E-03	3.05E-03	2.28E-03
5.000	7.12E-03	8.65E-03	9.01E-03	6.99E-03	5.18E-03	3.61E-03	2.87E-03	2.18E-03	1.63E-03	1.06E-03	7.06E-04	5.19E-04
6.000	7.04E-04	7.62E-04	7.09E-04	6.68E-04	4.39E-04	3.26E-04	2.64E-04	2.05E-04	1.65E-04	1.02E-04	7.00E-05	5.19E-05
NORMFLUX=	2.60E 03	2.48E 03	2.45E 03	3.49E 03	2.14E 03	2.75E 03	2.77E 03	1.38E 03	2.47E 03	8.13E 02	7.49E 02	5.72E 02

ENERGY LEVELS >(MEV)	L-BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) *5.8-6.0*	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	L-BANDS *7.8-8.0*	*8.0+OVR*
.1000	3.96E 00	4.49E 00	5.31E 00	6.23E 00	7.17E 00	7.72E 00	9.29E 00	1.22E 01	1.74E 01	2.55E 01	3.30E 01	6.54E 01
.5000	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00	1.00E 00
1.000	2.79E-01	2.57E-01	2.37E-01	2.19E-01	1.96E-01	1.81E-01	1.60E-01	1.39E-01	1.17E-01	1.03E-01	9.54E-02	6.31E-02
1.500	8.79E-02	7.40E-02	6.27E-02	5.35E-02	4.41E-02	3.89E-02	3.25E-02	2.71E-02	2.20E-02	1.84E-02	1.66E-02	8.04E-03
2.000	2.77E-02	2.13E-02	1.66E-02	1.30E-02	9.93E-03	8.33E-03	6.60E-03	5.30E-03	4.12E-03	3.28E-03	2.90E-03	1.19E-03
3.000	3.78E-03	2.39E-03	1.57E-03	1.05E-03	6.33E-04	4.43E-04	2.74E-04	1.63E-04	4.69E-05	0.0	0.0	0.0
4.000	1.38E-03	6.27E-04	5.04E-04	3.19E-04	1.61E-04	9.49E-05	3.65E-05	0.0	0.0	0.0	0.0	0.0
5.000	3.09E-04	1.76E-04	1.01E-04	6.24E-05	1.67E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.000	3.22E-05	1.69E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	7.57E 07	8.93E 06	5.91E 07	4.67E 07	1.82E 07	1.14E 07	1.03E 07	3.39E 06	3.17E 06	2.23E 06	1.45E 06	1.60E 06

Table 12

ORIGINAL PAGE IS
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** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AE7 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 1.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVAFA OF 1972 WITH ALLMAG; MODEL = 5; BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1980.0 **
** VEHICLE : IRAS 600 KM ** INCLINATION= 90DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** B/L CREIT TAPE: TES362 ** PERIOD= 1.611 **

PROTONS

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES #/(MEV)/SEC	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PERCENT
.1000-2.000	3.014E 03	2.605E 08	55.577
2.000-5.000	3.276E 01	2.831E 06	0.647
5.000-8.000	1.043E 01	9.009E 05	0.206
8.000-10.00	4.172E 00	3.605E 05	0.082
10.00-25.00	1.101E 01	9.513E 05	0.218
25.00-50.00	8.364E 00	7.226E 05	0.165
50.00-100.0	1.145E 01	9.894E 05	0.226
100.0-500.0	1.814E 01	1.567E 06	0.358
500.0-OVER	3.338E-01	2.884E 04	0.007
TOTAL	3.111E 03	2.688E 08	61.480

***** EXPOSURE INDEX: ENERGY>5.000 MEV *****

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	21.767	0.0
1.0E0-1.0E1	0.200	4.343E 03
1.0E1-1.0E2	0.567	1.017E 05
1.0E2-1.0E3	0.700	1.041E 06
1.0E3-1.0E4	0.733	4.306E 06
1.0E4-1.0E5	0.0	0.0
1.0E5-1.0E6	0.0	0.0
1.0E6-1.0E7	0.0	0.0
1.0E7-OVER	0.0	0.0
TOTAL	23.967	5.513E 06

**** COMPOSITE ORBIT SPECTRUM **** TAU= 1.00 YEAR(S)

ENERGY LEVELS >(MEV)	AVERAGED INTEG.FLUX #/CM**2/SEC	AVERAGED INTEG.FLUX #/CM**2/DAY	AVERAGED INTEG.FLUX #/CM**2/TAU	AVERAGED DIFFER.FLUX #/CM**2/SEC/KEV
.40000E-01	5.060E 03	4.372E 08	1.596E 11	2.574E 01
.70000E-01	3.947E 03	3.410E 08	1.245E 11	1.459E 01
.10000	3.411E 03	2.948E 08	1.076E 11	5.463E 00
.5000	3.390E 02	2.929E 07	1.069E 10	2.455E 00
1.000	1.667E 02	1.440E 07	5.352E 09	1.665E-01
2.000	9.866E 01	8.525E 06	3.348E 09	8.193E-02
3.000	9.073E 01	6.975E 06	2.546E 09	1.014E-02
4.000	7.017E 01	6.062E 06	2.213E 09	1.037E-02
5.000	6.390E 01	5.521E 06	2.015E 09	5.766E-03
6.000	5.863E 01	5.065E 06	1.849E 09	4.193E-03
8.000	5.347E 01	4.620E 06	1.686E 09	3.823E-03
10.00	4.930E 01	4.259E 06	1.555E 09	1.624E-03
15.00	4.438E 01	3.834E 06	1.400E 09	5.167E-04
20.00	4.058E 01	3.506E 06	1.280E 09	2.854E-04
25.00	3.829E 01	3.308E 06	1.207E 09	4.708E-04
30.00	3.623E 01	3.130E 06	1.142E 09	3.806E-04
35.00	3.449E 01	2.980E 06	1.088E 09	3.150E-04
40.00	3.287E 01	2.840E 06	1.037E 09	2.710E-04
45.00	3.138E 01	2.710E 06	9.887E 08	2.387E-04
50.00	2.992E 01	2.585E 06	9.437E 08	2.101E-04
60.00	2.767E 01	2.390E 06	8.836E 08	2.771E-04
80.00	2.228E 01	1.925E 06	7.027E 08	1.974E-04
100.0	1.847E 01	1.596E 06	5.825E 08	1.915E-04
150.0	1.059E 01	9.145E 05	3.338E 08	1.106E-04
200.0	6.691E 00	5.781E 05	2.110E 08	6.602E-05
250.0	3.956E 00	3.452E 05	1.260E 08	4.062E-05
300.0	2.402E 00	2.076E 05	7.577E 07	2.482E-05
350.0	1.461E 00	1.262E 05	4.607E 07	1.557E-05
400.0	8.874E-01	7.667E 04	2.798E 07	7.237E-06
500.0	3.328E-01	2.884E 04	1.053E 07	2.380E-06

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AE7 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 1.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVAFA OF 1972 WITH ALLMAG; MODEL = 5; BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1980.0 **
** VEHICLE : IRAS 600 KM ** INCLINATION= 90DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** B/L CREIT TAPE: TES362 ** PERIOD= 1.611 **

ELECTRONS L.O.

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES #/(MEV)/SEC	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PERCENT
.1000-.5000	2.213E 05	1.912E 10	56.765
.5000-1.000	1.262E 04	1.116E 09	3.313
1.000-1.500	5.162E 03	4.460E 08	1.309
1.500-2.000	3.045E 03	2.767E 08	0.525
2.000-3.000	1.010E 03	8.726E 07	0.259
3.000-4.000	3.868E 02	3.342E 07	0.100
4.000-5.000	8.621E 01	7.448E 06	0.022
5.000-6.000	5.233E 00	4.521E 05	0.001
6.000-OVER	0.0	0.0	0.0
TOTAL	2.429E 05	2.098E 10	62.294

***** EXPOSURE INDEX: ENERGY>.5000 MEV *****

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO-FLUX	15.000	0.0
1.0E0-1.0E1	0.500	3.342E 03
1.0E1-1.0E2	0.667	1.275E 05
1.0E2-1.0E3	0.800	1.235E 06
1.0E3-1.0E4	1.333	1.990E 07
1.0E4-1.0E5	3.667	8.956E 08
1.0E5-1.0E6	2.100	1.243E 09
1.0E6-1.0E7	0.0	0.0
1.0E7-OVER	0.0	0.0
TOTAL	23.967	1.860E 09

****** COMPOSITE ORBIT SPECTRUM ****** TAU= 1.00 YR(S)

ENERGY LEVELS >(MEV)	AVERAGED INTEG.FLUX * TOTAL #/CM**2/SEC	AVERAGED INTEG.FLUX * TOTAL #/CM**2/DAY	AVERAGED INTEGRAL FLUENCE *** INNER ZONE * #/CM**2/TAU	AVERAGED INTEGRAL FLUENCE *** OUTER ZONE #/CM**2/TAU	AVERAGED DIFFER.FLUX *TOTAL** #/CM**2/SEC/KEV
.40000E-01	3.899E 05	3.368E 10	1.229E 12	6.177E 12	4.218E 12	2.066E 03
.70000E-01	6.067E 05	2.650E 10	9.672E 12	6.251E 12	2.341E 12	2.751E 03
.10000E 00	2.429E 05	2.098E 10	7.655E 12	4.561E 12	2.679E 12	2.045E 03
.2000	1.099E 05	9.496E 09	3.466E 12	1.804E 12	1.664E 12	6.137E 00
.3000	5.452E 04	4.711E 09	1.719E 12	6.130E 11	1.046E 12	3.273E 02
.4000	3.272E 04	2.827E 09	1.032E 12	2.455E 11	7.820E 11	1.562E 02
.5000	2.155E 04	1.862E 09	6.797E 11	9.252E 10	5.868E 11	7.341E 01
.6000	1.741E 04	1.504E 09	5.492E 11	5.126E 10	4.679E 11	4.663E 01
.7000	1.435E 04	1.240E 09	4.527E 11	2.526E 10	4.233E 11	2.685E 01
.8000	1.203E 04	1.040E 09	3.794E 11	1.666E 10	3.606E 11	2.169E 01
.9000	1.018E 04	8.795E 08	3.210E 11	1.240E 10	3.076E 11	2.035E 01
1.000	8.637E 03	7.463E 08	2.724E 11	9.841E 09	2.678E 11	1.860E 01
1.250	5.538E 03	4.785E 08	1.737E 11	5.695E 09	1.678E 11	9.605E 00
1.500	3.695E 03	3.193E 08	1.115E 11	3.167E 09	1.079E 11	6.050E 00
1.750	2.598E 03	1.997E 08	7.217E 10	2.192E 09	6.978E 10	3.785E 00
2.000	1.890E 03	1.288E 08	4.700E 10	1.551E 09	4.541E 10	2.201E 00
2.250	1.418E 03	9.660E 07	3.526E 10	1.170E 09	3.419E 10	1.372E 00
2.500	8.435E 02	7.288E 07	2.660E 10	7.215E 08	2.588E 10	9.654E-01
2.750	6.331E 02	5.470E 07	1.997E 10	2.666E 08	1.968E 10	7.703E-01
3.000	4.800E 02	4.147E 07	1.514E 10	1.149E 08	1.503E 10	6.511E-01
3.250	3.159E 02	2.729E 07	9.961E 09	3.133E 07	9.523E 09	4.934E-01
3.500	2.085E 02	1.802E 07	6.576E 09	1.228E 07	6.563E 09	3.619E-01
3.750	1.780E 02	1.538E 07	4.351E 09	4.224E 06	4.347E 09	2.988E-01
4.000	5.143E 01	7.899E 06	2.883E 09	7.221E 05	2.883E 09	1.865E-01
4.500	2.187E 01	1.890E 06	6.857E 08	0.0	6.897E 08	6.038E-02
5.000	5.223E 00	4.513E 05	1.647E 08	0.0	1.647E 08	1.289E-02
5.500	7.658E-01	6.617E 04	2.415E 07	0.0	2.415E 07	3.208E-03
6.000	0.0	0.0	0.0	0.0	0.0	0.0
6.500	0.0	0.0	0.0	0.0	0.0	0.0
7.000	0.0	0.0	0.0	0.0	0.0	0.0

Table 13

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AE17 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 1.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG MODEL 21 - BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1980.0 **
** VEHICLE : IRAS 900 KM ** INCLINATION= 99DEG ** PERIGEE= 900KM ** APOGEE= 900KM * B/L ORBIT TAPE: T0537L ** PERIOD= 1.716 **

PROTONS

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PERCENT
.1000-2.000	1.222E 04	1.055E 09	60.242
2.000-5.000	1.870E 03	1.555E 08	7.888
5.000-8.000	5.470E 01	4.726E 06	0.291
8.000-10.00	2.475E 01	2.138E 06	0.122
10.00-25.00	6.733E 01	5.817E 06	0.332
25.00-65.00	4.376E 01	3.780E 06	0.212
65.00-100.0	5.303E 01	4.581E 06	0.265
100.0-250.0	8.568E 01	7.402E 06	0.423
500.0-OVER	2.021E 00	1.746E 05	0.010
TOTAL	1.273E 04	1.100E 09	62.785

***** EXPOSURE INDEX: ENERGY>5.000 MEV *****

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	39.970	0.0
1.0-1.61	0.567	1.967E 04
1.61-1.62	1.833	3.246E 05
1.62-1.63	1.533	2.601E 6
1.63-1.64	4.133	6.648E 07
1.64-1.65	0.0	0.0
1.65-1.66	0.0	0.0
1.66-1.67	0.0	0.0
1.67-OVER	0.0	0.0
TOTAL	47.967	6.799E 07

**** COMPOSITE ORBIT SPECTRUM **** TAU= 1.00 YEAR(S)

ENERGY LEVELS >(MEV)	AVERAGED INTEG.FLUX #/CM**2/SEC	AVERAGED INTEG.FLUX #/CM**2/DAY	AVERAGED INTEG.FLUX #/CM**2/TAU	AVERAGED DIFFER.FLUX #/CM**2/SEC/KEV
.4000E-01	2.028E 04	1.752E 09	6.395E 11	9.945E 01
.7000E-01	1.597E 04	1.380E 09	5.036E 11	2.105E 02
.1000E 00	1.273E 04	1.100E 09	4.015E 11	1.173E 02
.5000	2.031E 03	1.754E 08	6.403E 10	1.269E 01
1.000	8.659E 02	7.481E 07	2.728E 10	7.587E-01
2.000	5.159E 02	4.457E 07	1.627E 10	4.036E-01
3.000	3.381E 02	2.920E 07	1.065E 10	1.855E-01
4.000	2.573E 02	2.223E 07	1.176E 10	5.577E-02
5.000	3.558E 02	2.902E 07	1.059E 10	3.194E-02
6.000	3.093E 02	2.672E 07	9.753E 09	2.947E-02
8.000	2.768E 02	2.391E 07	8.729E 09	1.491E-02
10.00	2.520E 02	2.178E 07	7.948E 09	9.811E-03
15.00	2.215E 02	1.913E 07	6.981E 09	5.476E-03
20.00	1.975E 02	1.707E 07	6.229E 09	3.501E-03
25.00	1.847E 02	1.596E 07	5.825E 09	2.665E-03
30.00	1.731E 02	1.495E 07	5.458E 09	2.124E-03
35.00	1.645E 02	1.421E 07	5.187E 09	1.724E-03
40.00	1.588E 02	1.372E 07	5.008E 09	1.602E-03
45.00	1.488E 02	1.286E 07	4.693E 09	1.658E-03
50.00	1.418E 02	1.224E 07	4.467E 09	1.587E-03
60.00	1.284E 02	1.111E 07	4.055E 09	1.302E-03
80.00	1.090E 02	9.418E 06	3.436E 09	1.159E-03
100.0	8.792E 01	7.598E 06	2.772E 09	8.873E-04
150.0	5.369E 01	4.639E 06	1.693E 09	5.147E-04
200.0	3.334E 01	2.881E 06	1.051E 09	3.114E-04
250.0	2.065E 01	1.785E 06	6.514E 08	1.965E-04
300.0	1.287E 01	1.112E 06	4.059E 08	1.241E-04
350.0	8.402E 00	6.966E 05	2.542E 08	8.247E-05
400.0	5.468E 00	4.724E 05	1.724E 08	5.695E-05
500.0	2.021E 00	1.746E 05	6.374E 07	1.333E-05

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AE17 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 1.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG MODEL 21 - BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1980.0 **
** VEHICLE : IRAS 900 KM ** INCLINATION= 99DEG ** PERIGEE= 900KM ** APOGEE= 900KM * B/L ORBIT TAPE: T0537L ** PERIOD= 1.716 **

ELECTRONS LO

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PERCENT
.1000-.5000	6.983E 06	6.033E 10	62.251
.5000-1.000	2.654E 04	2.293E 09	2.366
1.000-1.500	7.787E 03	6.728E 08	1.694
1.500-2.000	3.471E 03	2.998E 08	0.374
2.000-3.000	1.567E 03	1.354E 08	0.141
3.000-4.000	5.617E 02	4.853E 07	0.050
4.000-5.000	1.278E 02	1.104E 07	0.011
5.000-6.000	7.259E 01	6.272E 05	0.001
6.000-OVER	0.0	0.0	0.0
TOTAL	7.383E 05	6.376E 10	65.786

***** EXPOSURE INDEX: ENERGY>.5000 MEV *****

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	35.867	0.0
1.0-1.61	1.667	2.433E 05
1.61-1.62	2.167	3.731E 05
1.62-1.63	2.333	5.364E 05
1.63-1.64	6.267	1.079E 06
1.64-1.65	7.333	1.592E 06
1.65-1.66	0.0	0.0
1.66-1.67	0.0	0.0
1.67-OVER	0.0	0.0
TOTAL	47.967	6.848E 06

**** COMPOSITE ORBIT SPECTRUM **** TAU= 1.00 YR(S)

ENERGY LEVELS >(MEV)	AVERAGED INTEG.FLUX **TOTAL** #/CM**2/SEC	AVERAGED INTEG.FLUX **TOTAL** #/CM**2/DAY	**** AVERAGED INTEGRAL FLUENCE **** * TOTAL ** #/CM**2/TAU	* INNER ZONE #/CM**2/TAU	* OUTER ZONE #/CM**2/TAU	AVERAGED DIFFER.FLUX **TOTAL** #/CM**2/SEC/KEV
.4000E-01	1.122E 06	9.692E 10	3.538E 13	2.952E 13	5.851E 12	5.260E 03
.7000E-01	9.074E 05	7.840E 10	2.862E 13	2.366E 13	4.659E 12	7.687E 03
.1000E 00	7.380E 05	6.376E 10	2.327E 13	1.952E 13	3.749E 12	6.037E 03
.3000	3.311E 05	2.861E 10	1.044E 13	8.134E 12	2.307E 12	2.695E 03
.5000	1.688E 05	1.458E 10	5.692E 12	3.221E 12	1.471E 12	1.078E 03
.7000	7.211E 04	6.230E 09	2.274E 12	1.180E 12	1.095E 12	4.606E 02
.9000	3.666E 04	3.426E 09	1.251E 12	4.331E 11	8.175E 11	1.929E 02
1.000	2.988E 04	2.578E 09	9.411E 11	2.483E 11	6.929E 11	9.270E 01
1.200	2.329E 04	2.012E 09	7.340E 11	1.461E 11	5.885E 11	5.434E 01
1.400	1.876E 04	1.621E 09	5.913E 11	9.557E 10	5.077E 11	3.952E 01
1.600	1.570E 04	1.357E 09	4.952E 11	6.836E 10	4.269E 11	3.412E 01
1.800	1.341E 04	1.133E 09	4.136E 11	4.918E 10	3.644E 11	3.520E 01
2.000	1.166E 04	1.007E 09	3.676E 11	3.988E 10	3.277E 11	3.474E 01
2.500	8.333E 03	7.200E 08	2.628E 11	2.968E 10	2.331E 11	1.474E 01
3.000	5.328E 03	4.604E 08	1.680E 11	1.797E 10	1.501E 11	9.139E 00
3.500	3.459E 03	2.988E 08	1.091E 11	1.192E 10	9.719E 10	5.717E 00
4.000	2.257E 03	1.950E 08	7.118E 10	7.911E 09	6.327E 10	3.346E 00
4.500	1.483E 03	1.454E 08	5.338E 10	5.333E 09	4.775E 10	2.118E 00
5.000	1.263E 03	1.091E 08	3.983E 10	3.601E 09	3.623E 10	1.510E 00
5.750	9.229E 02	7.974E 07	2.910E 10	1.494E 09	2.761E 10	1.185E 00
6.500	6.909E 02	5.969E 07	2.176E 10	6.204E 08	2.113E 10	9.737E-01
7.500	4.881E 02	3.872E 07	1.413E 10	1.953E 08	1.399E 10	7.182E-01
8.500	2.939E 02	2.539E 07	9.268E 09	6.142E 07	9.207E 09	5.173E-01
9.750	1.927E 02	1.679E 07	6.117E 09	1.966E 07	6.099E 09	4.197E-01
11.00	1.281E 02	1.107E 07	4.039E 09	5.313E 06	4.034E 09	2.542E-01
12.50	8.509E 01	7.352E 06	2.635E 09	0.0	2.635E 09	8.595E-02
14.00	5.968E 01	5.156E 06	1.848E 09	0.0	1.848E 09	1.797E-02
15.50	4.259E 01	3.680E 06	1.319E 09	0.0	1.319E 09	4.280E-03
17.00	3.093E 01	2.672E 06	9.581E 08	0.0	9.581E 08	0.0
18.50	2.268E 01	1.960E 06	7.026E 08	0.0	7.026E 08	0.0
20.00	1.685E 01	1.456E 06	5.220E 08	0.0	5.220E 08	0.0
21.50	1.263E 01	1.091E 06	3.911E 08	0.0	3.911E 08	0.0
23.00	9.529E 00	8.233E 05	2.951E 08	0.0	2.951E 08	0.0
24.50	7.241E 00	6.256E 05	2.243E 08	0.0	2.243E 08	0.0
26.00	5.537E 00	4.785E 05	1.715E 08	0.0	1.715E 08	0.0
27.50	4.254E 00	3.676E 05	1.318E 08	0.0	1.318E 08	0.0
29.00	3.276E 00	2.831E 05	1.015E 08	0.0	1.015E 08	0.0
30.50	2.524E 00	2.181E 05	7.819E 07	0.0	7.819E 07	0.0
32.00	1.941E 00	1.677E 05	6.013E 07	0.0	6.013E 07	0.0
33.50	1.490E 00	1.287E 05	4.616E 07	0.0	4.616E 07	0.0
35.00	1.142E 00	9.869E 04	3.539E 07	0.0	3.539E 07	0.0
36.50	8.750E-01	7.560E 04	2.711E 07	0.0	2.711E 07	0.0
38.00	6.696E-01	5.786E 04	2.075E 07	0.0	2.075E 07	0.0
39.50	5.118E-01	4.422E 04	1.586E 07	0.0	1.586E 07	0.0
41.00	3.907E-01	3.376E 04	1.211E 07	0.0	1.211E 07	0.0
42.50	2.978E-01	2.573E 04	9.230E 06	0.0	9.230E 06	0.0
44.00	2.266E-01	1.958E 04	7.023E 06	0.0	7.023E 06	0.0
45.50	1.721E-01	1.487E 04	5.334E 06	0.0	5.334E 06	0.0
47.00	1.305E-01	1.128E 04	4.045E 06	0.0	4.045E 06	0.0
48.50	9.880E-02	8.537E 03	3.062E 06	0.0	3.062E 06	0.0
50.00	7.472E-02	6.456E 03	2.316E 06	0.0	2.316E 06	0.0

Table 14

** VEHICLE : IRAS 1200 KM ** INCLINATION= 805EG ** PERIGEE= 1200KM ** APOGEE= 1200KM ** O/L ORBIT TAPE: TC5403 ** PERIOD= 1.824 **

PROTONS

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES #/(MEV)/SEC	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PERCENT
.1300-2.000	3.753E C4	3.243E 09	58.174
2.000-5.000	5.481E C2	4.736E 07	0.840
5.000-8.000	1.594E C2	1.682E 07	0.302
8.000-10.00	8.552E 01	7.389E 06	0.135
10.00-25.00	2.418E C2	2.065E 07	0.375
25.00-50.00	1.329E 02	1.148E 07	0.206
50.00-100.0	1.514E 02	1.351E 07	0.242
100.0-300.0	2.440E C2	2.108E 07	0.378
500.0-OVER	5.720E 00	4.941E C5	0.009
TOTAL	3.913E C4	3.381E C9	60.659

***** EXPOSURE INDEX: ENERGY>25.000 MEV *****

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	16.500	C.0
1.E0-1.E1	C.900	3.209E 04
1.E1-1.E2	1.167	4.021E 05
1.E2-1.E3	2.167	3.571E 06
1.E3-1.E4	2.567	4.185E C7
1.E4-1.E5	C.167	4.592E 07
1.E5-1.E6	C.0	C.0
1.E6-1.E7	C.0	C.0
1.E7-OVER	0.0	C.0
TOTAL	23.467	4.155E 07

**** COMPOSITE ORBIT SPECTRUM **** TAU= 1.00 YEAR(S)

ENERGY LEVELS >(MEV)	AVERAGED INTEG.FLUX #/CM**2/SEC	AVERAGED INTEG.FLUX #/CM**2/DAY	AVERAGED INTEG.FLUX #/CM**2/TAU	AVERAGED DIFFER.FLUX #/CM**2/SEC/KEV
.40000E-01	6.451E 04	5.574E 09	2.035E 12	3.40EE 02
.70000E-01	4.567E 04	3.945E 09	1.440E 12	2.41E 02
.10000E-00	3.491E 04	3.015E 09	1.101E 12	1.84E 02
.5000	5.967E 03	5.156E 08	1.882E 11	3.683E 01
1.000	2.621E 03	2.264E 08	8.265E 10	2.187E 00
2.000	1.603E 03	1.385E 08	5.056E 10	1.23AE 00
3.000	1.341E 03	1.159E 08	4.230E 10	1.573E-01
4.000	1.175E 03	1.015E 08	3.705E 10	1.711E-01
5.000	1.061E 03	9.168E 07	3.346E 10	5.583E-02
6.000	9.782E 02	8.452E 07	3.085E 10	7.653E-02
8.000	8.603E 02	7.432E 07	2.712E 10	5.123E-02
10.00	7.808E 02	6.746E 07	2.462E 10	3.473E-02
15.00	6.687E 02	5.778E 07	2.109E 10	1.998E-02
20.00	5.813E 02	5.023E 07	1.833E 10	1.334E-03
25.00	5.250E 02	4.537E 07	1.700E 10	6.660E-03
30.00	5.007E 02	4.326E 07	1.579E 10	6.409E-03
35.00	4.749E 02	4.103E 07	1.498E 10	5.276E-03
40.00	4.509E 02	3.893E 07	1.421E 10	4.620E-03
45.00	4.277E 02	3.695E 07	1.349E 10	4.965E-03
50.00	4.061E 02	3.509E 07	1.281E 10	4.652E-03
60.00	3.679E 02	3.179E 07	1.160E 10	3.792E-03
80.00	3.027E 02	2.616E 07	9.546E 09	3.328E-03
100.0	2.458E 02	2.124E 07	7.877E 09	2.554E-03
150.0	1.524E 02	1.317E 07	4.806E 09	1.470E-03
200.0	9.357E 01	8.119E 06	2.964E 09	8.814E-04
250.0	5.847E 01	5.052E 06	1.844E 09	5.581E-04
300.0	3.655E 01	3.158E 06	1.152E 09	3.509E-04
350.0	2.291E 01	1.979E 06	7.224E 08	2.240E-04
400.0	1.441E 01	1.245E 06	4.543E 08	1.107E-04
500.0	5.730E 00	4.951E 05	1.807E 08	2.791E-05

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTS APRI A.D. KEIT FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (APR) = UF= 1.01 FOR INFRA ZONE ELECTRONS (APR) = UF= 1.0 **
** MAGNETIC COORDINATES "B" AND "L" COMPUTED BY INVAPA OF 1972 WITH ALLMAG MODEL 5: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1980.0 **
** VEHICLE : IRAS 1200 KM ** INCLINATION= 805EG ** PERIGEE= 1200KM ** APOGEE= 1200KM ** O/L ORBIT TAPE: TC5403 ** PERIOD= 1.824 **

ELECTRONS LO

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES #/(MEV)/SEC	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PERCENT
.1000-.5000	1.948E C6	1.683E 11	64.059
.5000-1.000	5.567E 04	5.172E 09	1.330
1.300-1.500	1.258E 04	1.087E 09	0.427
1.500-2.000	4.774E 03	4.125E 08	0.162
2.000-3.000	2.569E 03	2.220E 08	0.087
3.000-4.000	7.913E 02	6.838E 07	0.027
4.000-5.000	1.635E 02	1.412E 07	0.006
5.000-6.000	9.731E 00	8.406E 05	0.000
6.000-OVER	1.478E-03	1.277E 02	0.000
TOTAL	2.029E 06	1.753E 11	68.777

***** EXPOSURE INDEX: ENERGY>.5000 MEV *****

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	8.167	C.0
1.E0-1.E1	C.633	5.641E 04
1.E1-1.E2	1.100	1.435E 05
1.E2-1.E3	1.633	2.396E 06
1.E3-1.E4	2.433	4.568E 07
1.E4-1.E5	3.333	8.278E 08
1.E5-1.E6	C.400	8.170E 07
1.E6-1.E7	C.267	1.233E 09
1.E7-OVER	0.0	C.0
TOTAL	23.567	6.568E 09

****** COMPOSITE ORBIT SPECTRUM ****** TAU= 1.00 YR(S)

ENERGY LEVELS >(MEV)	AVERAGED INTEG.FLUX **TOTAL** #/CM**2/SEC	AVERAGED INTG.FLUX **TOTAL** #/CM**2/DAY	**** AVERAGED INTEGRAL FLUENCE *** * TOTAL * #/CM**2/TAU	INNER ZONE * #/CM**2/TAU	OUTER ZONE * #/CM**2/TAU	AVERAGED DIFFER.FLUX **TOTAL** #/CM**2/SEC/KEV
.40000E-01	2.949E 06	2.548E 11	9.301E 13	6.103E 13	7.588E 12	1.237E 04
.70000E-01	2.441E 06	2.109E 11	7.665E 13	7.063E 13	6.351E 12	1.873E 04
.10000E-00	2.029E 06	1.753E 11	6.357E 13	5.887E 13	5.101E 12	1.578E 04
.2000	9.437E 05	8.147E 10	2.974E 13	2.657E 13	3.162E 12	7.412E 03
.3000	4.088E 05	3.532E 10	1.289E 13	1.691E 13	1.980E 12	3.218E 03
.4000	1.723E 05	1.489L 10	5.435E 12	3.155E 12	1.477E 12	1.322E 03
.5000	8.076E 04	6.978E 09	2.547E 12	1.441E 12	1.106E 12	6.018E 02
.6000	4.617E 04	3.988E 09	1.731E 12	8.341E 11	9.374E 11	2.218E 02
.7000	4.027E 04	3.481E 09	1.285E 12	4.629E 11	8.960E 11	1.153E 02
.8000	3.170E 04	2.739E 09	9.457E 11	1.226E 11	8.771E 11	7.905E 01
.9000	2.563E 04	2.215E 09	8.064E 11	2.314E 11	8.770E 11	6.243E 01
1.000	2.090E 04	1.805E 09	6.590E 11	1.666E 11	4.924E 11	4.332E 01
1.250	1.314E 04	1.135E 09	4.141E 11	5.515E 10	3.147E 11	2.354E 01
1.500	8.113E 03	7.010E 08	2.622E 11	1.457E 10	2.025E 11	1.442E 01
1.750	5.411E 03	4.675E 08	1.760E 11	2.153E 10	1.311E 11	2.961E 00
2.000	3.439E 03	2.971E 08	1.116E 11	2.432E 10	8.538E 10	5.320E 00
2.250	2.622E 03	2.264L 08	8.265E 10	1.768E 10	6.437E 10	3.453E 00
2.500	1.925E 03	1.664L 08	6.072E 10	1.454E 10	4.579E 10	2.501E 00
2.750	1.338E-03	1.156E-08	4.221E 10	5.673E-09	3.714E 10	1.914E 00
3.000	9.695E 02	8.377E 07	3.057E 10	2.155E 09	2.838E 10	1.474E 00
3.250	6.158E-02	5.321E 07	1.942E 10	6.741E 08	1.875E 10	1.032E 00
3.500	4.998E 02	4.318E 07	1.576E 10	1.476E 09	1.240E 10	7.179E-01
3.750	3.424E 02	2.267E 07	8.275E 09	6.482E C7	8.210E 09	5.757E-01
4.000	1.738E-02	1.467E 07	5.463E 09	1.667E C7	6.444E 09	3.364E-01
4.500	1.112E 01	9.553E 06	1.267E 06	0.000E 00	1.296E 09	1.256E-01
5.000	9.173E 00	8.444E 05	3.082E 08	0.0	3.082E 08	2.334E-02
5.500	1.158E-00	1.001E 05	3.653E 07	0.0	3.653E 07	2.544E-03
6.000	1.476E-03	1.277E 02	4.661E 04	0.0	4.661E 04	6.088E-05
6.500	0.0	0.0	0.0	0.0	0.0	0.0
7.000	0.0	0.0	0.0	0.0	0.0	0.0

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Table 15

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AL6, AE17 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 2.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 5.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 5: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1980.0 **
** VEHICLE 1 IRAS 600 KM ** INCLINATION= 60DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** B/L ORBIT TAPE: TD5302 ** PERIOD= 1.611 **

PROTONS

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES #/(MEV)/SEC	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PERCENT
.100-2.000	6.029E 03	5.205E 08	59.577
2.000-5.000	6.552E 01	5.661E 06	0.247
5.000-8.000	2.085E 01	1.802E 06	0.206
8.000-10.00	6.344E 00	7.200E 05	0.682
10.00-25.00	1.202E 01	1.903E 06	0.218
25.00-50.00	1.673E 01	1.445E 06	0.165
50.00-100.0	6.290E 01	1.975E 06	0.226
100.0-500.0	3.628E 01	3.134E 06	0.358
500.0-OVER	6.676E 01	5.768E 04	0.007
TOTAL	6.222E 03	5.376E 08	61.488

***** EXPOSURE INDEX: ENERGY>5.000 MEV *****

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	21.767	0.0
1.E0-1.E1	0.867	1.655E 03
1.E1-1.E2	0.433	6.247E 04
1.E2-1.E3	0.700	6.858E 05
1.E3-1.E4	1.000	9.497E 06
1.E4-1.E5	0.0	0.0
1.E5-1.E6	0.0	0.0
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0
TOTAL	23.567	1.103E 07

**** COMPOSITE ORBIT SPECTRUM **** TAU= 1.00 YEAR(S)

ENERGY LEVELS >(MEV)	AVERAGED INTEG.FLUX #/CM**2/SEC	AVERAGED INTEG.FLUX #/CM**2/DAY	AVERAGED INTEG.FLUX #/CM**2/TAU	AVERAGED DIFFER.FLUX #/CM**2/SEC/KEV
.4000E-01	1.012E 04	8.743E 08	3.191E 11	5.140E 01
.7003E-01	7.894E 03	6.820E 08	2.489E 11	1.100E 02
.1000E 00	6.222E 03	5.376E 08	1.962E 11	5.924E 01
.5000	9.780E 02	7.580E 07	2.767E 10	5.990E 00
1.000	3.394E 02	2.933E 07	1.070E 10	3.330E-01
2.000	1.933E 02	1.670E 07	6.396E 09	1.639E-01
3.000	1.615E 02	1.395E 07	5.092E 09	2.023E-02
4.000	1.415E 02	1.222E 07	4.462E 09	2.075E-02
5.000	1.278E 02	1.104E 07	4.031E 09	1.153E-02
6.000	1.179E 02	1.018E 07	3.717E 09	8.368E-03
8.000	1.069E 02	9.240E 06	3.373E 09	8.068E-03
10.00	9.860E 01	8.519E 06	3.109E 09	3.247E-03
15.00	8.870E 01	7.666E 06	2.798E 09	1.823E-03
20.00	8.115E 01	7.011E 06	2.559E 09	1.171E-03
25.00	7.657E 01	6.616E 06	2.415E 09	6.416E-04
30.00	7.245E 01	6.260E 06	2.285E 09	7.612E-04
35.00	6.895E 01	5.958E 06	2.175E 09	8.104E-04
40.00	6.591E 01	5.695E 06	2.079E 09	8.212E-04
45.00	6.271E 01	5.418E 06	1.977E 09	6.773E-04
50.00	5.985E 01	5.171E 06	1.887E 09	6.681E-04
60.00	5.414E 01	4.677E 06	1.707E 09	5.542E-04
80.00	4.456E 01	3.850E 06	1.405E 09	4.947E-04
100.0	3.694E 01	3.192E 06	1.165E 09	3.830E-04
150.0	2.198E 01	1.899E 06	6.933E 08	2.213E-04
200.0	1.338E 01	1.156E 06	4.220E 08	1.320E-04
250.0	7.991E 00	6.904E 05	2.520E 08	8.124E-05
300.0	4.815E 00	4.160E 05	1.518E 08	4.974E-05
350.0	2.922E 00	2.524E 05	9.213E 07	3.193E-05
400.0	1.775E 00	1.533E 05	5.597E 07	1.947E-05
500.0	6.676E-01	5.768E 04	2.105E 07	4.75EE-06

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AL6, AE17 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 2.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 5.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 5: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1980.0 **
** VEHICLE 1 IRAS 600 KM ** INCLINATION= 60DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** B/L ORBIT TAPE: TD5302 ** PERIOD= 1.611 **

ELECTRONS MI

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES #/(MEV)/SEC	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PERCENT
.1000-.5000	8.413E 05	7.269E 10	59.465
.5000-1.000	2.369E 04	2.048E 09	1.661
1.000-1.500	4.081E 03	4.304E 08	0.352
1.500-2.000	2.326E 03	2.009E 08	0.164
2.000-3.000	1.708E 03	1.477E 08	0.121
3.000-4.000	4.871E 02	4.208E 07	0.034
4.000-5.000	2.640E 02	2.281E 07	0.019
5.000-6.000	7.907E 01	6.832E 06	0.006
6.000-OVER	7.728E 00	6.677E 05	0.001
TOTAL	8.746E 05	7.557E 10	61.442

***** EXPOSURE INDEX: ENERGY>.5000 MEV *****

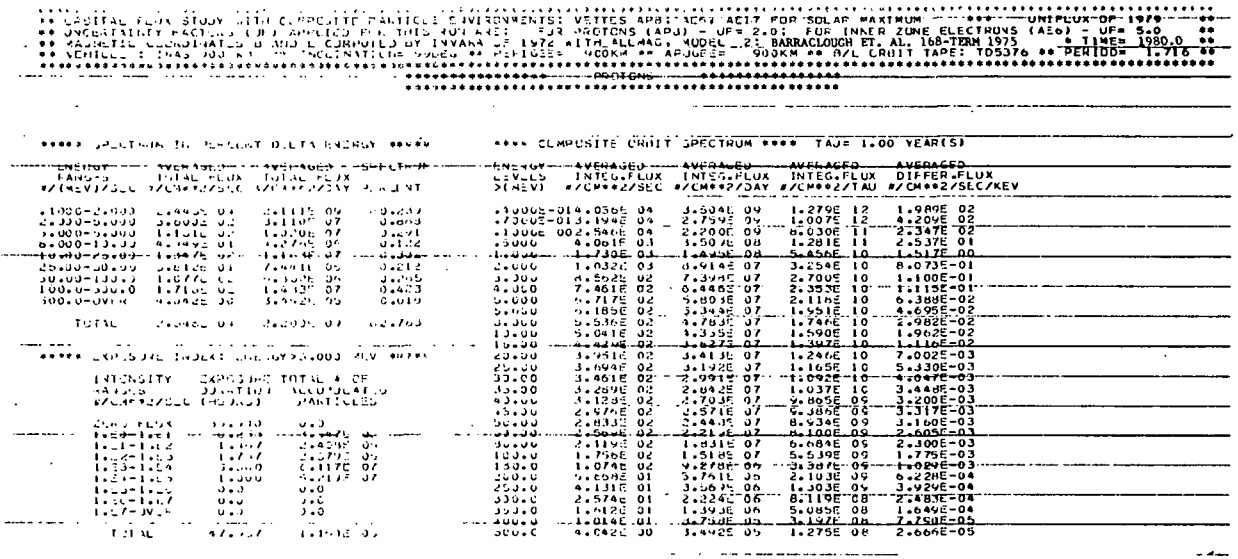
INTENSITY RANGES #/(CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	15.000	0.0
1.E0-1.E1	0.767	5.404E 03
1.E1-1.E2	0.467	7.933E 04
1.E2-1.E3	0.700	5.481E 05
1.E3-1.E4	1.333	1.831E 07
1.E4-1.E5	3.490	5.674E 08
1.E5-1.E6	5.667	2.188E 09
1.E6-1.E7	0.033	1.247E 08
1.E7-OVER	0.0	0.0
TOTAL	23.567	2.677E 09

****** COMPOSITE ORBIT SPECTRUM ****** TAU= 1.00 YR(S)

ENERGY LEVELS >(MEV)	AVERAGED INTEG.FLUX **TOTAL** #/CM**2/SEC	AVERAGED INTEG.FLUX **TOTAL** #/CM**2/DAY	**** AVERAGED INTEGRAL FLUENCE *** * TOTAL = INNER ZONE + OUTER ZONE ** **TOTAL** #/CM**2/TAU	#/CM**2/TAU	#/CM**2/TAU	AVERAGED DIFFER.FLUX **TOTAL** #/CM**2/SEC/KEV
.4000E-01	1.414E 06	1.222E 11	4.460E 13	4.030E 13	4.218E 12	7.527E 03
.7000E-01	1.110E 06	9.589E 10	3.500E 13	3.166E 13	3.341E 12	1.077E 06
.1000E 00	6.746E 05	7.557E 10	2.758E 13	2.490E 13	2.678E 12	8.077E 03
.2000	3.383E 05	2.923E 10	1.067E 13	9.604E 12	1.668E 12	3.078E 03
.5000	1.399E 05	1.209E 10	4.411E 12	3.939E 12	1.048E 12	1.126E 03
.4000	6.461E 04	5.565E 09	2.031E 12	1.265E 12	7.828E 11	4.559E 02
.5000	3.334E 04	2.881E 09	1.051E 12	4.646E 11	5.865E 11	1.807E 02
.6000	2.392E 04	2.066E 09	7.542E 11	2.563E 11	4.979E 11	8.499E 01
.7000	1.808E 04	1.562E 09	5.701E 11	1.468E 11	4.233E 11	4.701E 01
.8000	1.442E 04	1.246E 09	4.550E 11	9.435E 10	3.606E 11	3.219E 01
.9000	1.188E 04	1.126E 09	3.746E 11	6.701E 10	3.076E 11	2.529E 01
1.000	9.853E 03	8.513E 08	3.107E 11	4.791E 10	2.628E 11	1.737E 01
1.250	6.888E 03	5.952E 08	2.172E 11	2.933E 10	1.879E 11	9.824E 00
1.500	4.872E 03	4.209E 08	1.536E 11	1.803E 10	1.356E 11	6.416E 00
1.750	3.508E 03	3.031E 08	1.106E 11	1.196E 10	9.866E 10	4.523E 00
2.000	2.546E 03	2.200E 08	8.029E 10	7.955E 09	7.233E 10	3.058E 00
2.250	1.938E 03	1.674E 08	6.111E 10	5.352E 09	5.576E 10	2.191E 00
2.500	1.498E 03	1.279E 08	4.668E 10	3.607E 09	4.308E 10	1.643E 00
2.750	1.203E 03	9.528E 07	3.478E 10	2.443E 09	3.234E 10	1.209E 00
3.000	8.378E 02	7.239E 07	2.642E 10	1.846E 09	2.458E 10	8.571E-01
3.250	6.668E 02	5.761E 07	2.103E 10	1.868E 08	2.084E 10	6.073E-01
3.500	5.360E 02	4.631E 07	1.690E 10	6.141E 07	1.629E 10	4.870E-01
3.750	4.330E 02	3.741E 07	1.366E 10	2.113E 07	1.365E 10	4.717E-01
4.000	3.508E 02	3.031E 07	1.106E 10	3.608E 06	1.106E 10	3.926E-01
4.500	1.742E 02	1.505E 07	5.493E 09	0.0	5.493E 09	2.547E-01
5.000	8.682E 01	7.500E 06	2.737E 09	0.0	2.737E 09	1.481E-01
5.500	2.584E 01	2.232E 06	8.164E 08	0.0	8.164E 08	6.608E-02
6.000	7.728E 00	6.677E 05	2.437E 08	0.0	2.437E 08	1.696E-02
6.500	6.857E-01	5.933E 04	2.166E 07	0.0	2.166E 07	3.790E-03
7.000	0.0	0.0	0.0	0.0	0.0	0.0

Table 16

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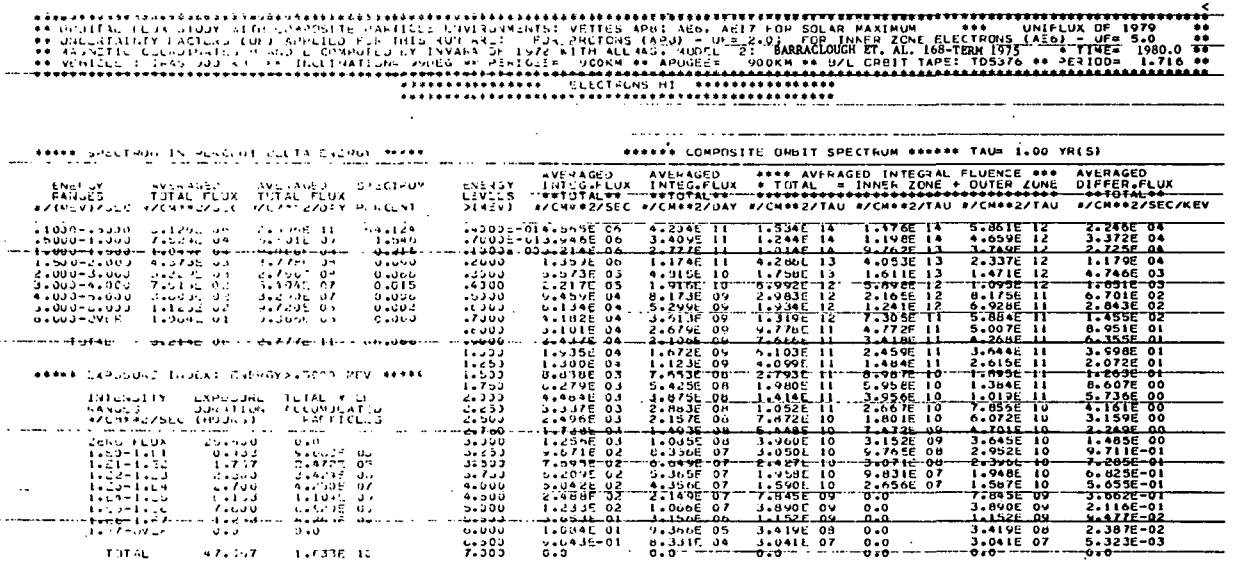


Table 17

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AE17 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 2.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 5.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL S; BARRACLOUGH ET. AL. 168-TERM 1975 TIME= 1980.0 **
** VEHICLE : IHAS 1200 KM ** INCLINATION= 60.00 ** PERIGEE= 1200KM ** APOGEE= 1200KM ** B/L ORBIT TAPE: TD5403 ** PERIOD= 1.826 **

PROTONS

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES #/(MEV)/SEC	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PERCENT
.10UC-2.00)	7.5000E 04	6.485E 09	58.173
2.000-5.000)	1.0004E 03	9.357E 07	6.840
5.000-8.000)	5.6546E 02	3.365E 07	0.302
8.000-10.00)	1.7130E 02	1.478E 07	0.133
10.00-25.00)	4.8256E 02	4.178E 07	0.375
25.00-50.00)	2.8659E 02	2.2697E 07	0.200
50.00-100.0)	3.1276E 02	2.702E 07	0.242
100.0-500.0)	4.4611E 02	4.217E 07	0.378
500.0-OVER	1.1460E 01	9.901E 05	0.009
TOTAL	7.8278 04	6.762E 19	60.658

***** EXPOSURE INDEX: ENERGY>5.00) MEV *****

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	16.300	0.0
1.E0-1.E1	5.567	9.495E 04
1.E1-1.E2	1.300	1.432E 05
1.E2-1.E3	1.567	3.215E 06
1.E3-1.E4	1.233	3.443E 07
1.E4-1.E5	1.930	1.458E 08
1.E5-1.E6	0.0	0.0
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0
TOTAL	23.967	1.831E 08

**** COMPOSITE ORBIT SPECTRUM **** TAU= 1.00 YEAR(S)

ENERGY LEVELS >(MEV)	AVERAGED INTEG.FLUX #/CM**2/SEC	AVERAGED INTEG.FLUX #/CM**2/DAY	AVERAGED INTEG.FLUX #/CM**2/TAU	AVERAGED DIFFER.FLUX #/CM**2/SEC/KEV
.4300E-01	1.290E 05	1.115E 10	4.069E 12	6.813E 02
.7000E-01	9.975E 04	8.618E 09	3.146E 12	1.370E 03
.1000E 00	7.027E 04	6.762E 09	2.468E 12	7.420E 02
.5000	1.194C 04	1.031E 09	3.764E 11	7.766E 01
1.000	5.242E 03	4.529E 08	1.653E 11	4.374E 00
2.000	3.206E 03	2.770E 08	1.011E 11	2.467E 00
3.000	2.682E 03	2.318E 08	8.459E 10	3.147E-01
4.000	2.350E 03	2.030E 08	7.411E 10	3.422E-01
5.000	2.122E 03	1.833E 08	6.692E 10	1.907E-01
6.000	1.956E 03	1.690E 08	6.170E 10	1.530E-01
8.000	1.733E 03	1.497E 08	5.464E 10	1.024E-01
10.00	1.562E 03	1.349E 08	4.925E 10	6.945E-02
15.00	1.337C 03	1.156E 08	4.218E 10	3.970E-02
20.00	1.163C 03	1.005E 08	3.667E 10	2.482E-02
25.00	1.078E 03	9.315E 07	3.400E 10	1.776E-02
30.00	1.001E 03	8.653E 07	3.158E 10	1.282E-02
35.00	9.498E 02	8.206E 07	2.995E 10	1.055E-02
40.00	9.011E 02	7.786E 07	2.842E 10	9.640E-03
45.00	8.554E 02	7.390E 07	2.697E 10	9.861E-03
50.00	8.122E 02	7.018E 07	2.561E 10	9.304E-03
60.00	7.388E 02	6.385E 07	2.330E 10	7.585E-03
80.00	6.253E 02	5.230E 07	1.909E 10	6.657E-03
100.0	5.298E 02	4.310E 07	1.573E 10	5.150E-03
150.0	3.708E 02	2.838E 07	1.036E 10	2.040E-03
200.0	1.879E 02	1.624E 07	5.927E 09	1.763E-03
250.0	1.169E 02	1.010E 07	3.688E 09	1.108E-03
300.0	7.300E 01	6.313E 06	2.304E 09	7.017E-04
350.0	4.582E 01	3.959E 06	1.445E 09	4.680E-04
400.0	2.681E 01	2.490E 06	9.087E 08	2.214E-04
500.0	1.146C 01	9.901E 05	3.614E 08	7.862E-05

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AE17 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 2.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 5.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL S; BARRACLOUGH ET. AL. 168-TERM 1975 TIME= 1980.0 **
** VEHICLE : IHAS 1200 KM ** INCLINATION= 60.00 ** PERIGEE= 1200KM ** APOGEE= 1200KM ** B/L ORBIT TAPE: TD5403 ** PERIOD= 1.826 **

ELECTRONS HI

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES #/(MEV)/SEC	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PERCENT
.1000-.5000)	9.2325E 06	7.976E 11	67.263
.5000-1.000)	1.2155E 05	1.050E 10	1.613
1.000-1.500	2.4852E 04	2.118E 09	3.179
1.500-2.000	9.0652E 03	7.832E 08	3.666
2.000-3.000)	6.5590E 03	5.667E 08	3.040
3.000-4.000)	1.2246E 03	1.058E 08	1.019
4.000-5.000)	4.5888E 02	4.311E 07	0.604
5.000-6.000)	1.4722E 02	1.272E 07	0.201
6.000-OVER	1.4388E 01	1.243E 06	0.000
TOTAL	9.4995E 06	8.204C 11	80.142

***** EXPOSURE INDEX: ENERGY>.5000 MEV *****

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	8.167	0.0
1.E0-1.E1	1.267	5.705E 03
1.E1-1.E2	1.567	1.268E 05
1.E2-1.E3	1.200	1.815E 06
1.E3-1.E4	1.467	4.081E 07
1.E4-1.E5	1.933	5.473E 08
1.E5-1.E6	1.267	5.508E 09
1.E6-1.E7	1.367	1.066E 10
1.E7-OVER	0.0	0.0
TOTAL	23.467	2.274E 10

****** COMPOSITE ORBIT SPECTRUM ****** TAU= 1.00 YR(S)

ENERGY LEVELS >(MEV)	AVERAGED INTEG.FLUX **TOTAL** #/CM**2/SEC	AVERAGED INTEG.FLUX **TOTAL** #/CM**2/DAY	**** AVERAGED INTEGRAL FLUENCE *** * TOTAL = INNER ZONE + OUTER ZONE #/CM**2/TAU	#/CM**2/TAU	AVERAGED DIFFER.FLUX **TOTAL** #/CM**2/SEC/KEV
.4000E-01	1.373C 07	1.187E 12	4.331E 14	4.251E 14	7.988E 12	5.666E 04
.7000E-01	1.140C 07	9.849E 11	3.595E 14	3.531E 14	6.351E 12	6.782E 04
.1000E 00	9.495E 06	8.204E 11	2.994E 14	2.944E 14	5.101E 12	7.485E 04
.2000	4.314E 06	3.727E 11	1.360E 14	1.325E 14	3.162E 12	3.553E 04
.3000	1.793E 06	1.549E 11	5.654E 13	5.458E 13	1.980E 12	1.536E 04
.4000	6.743E 05	5.826E 10	2.126E 13	1.975E 13	1.477E 12	5.980E 03
.5000	2.685E 05	2.277E 10	8.311E 12	7.204E 12	1.106E 12	2.081E 03
.6000	1.402C 05	1.211E 10	5.110E 12	4.170E 12	9.374E 11	8.509E 02
.7000	1.334E 05	8.933C 09	3.260E 12	2.464E 12	7.960E 11	4.196E 02
.8000	7.261E 04	6.274E 09	2.290E 12	1.613E 12	6.771E 11	2.458E 02
.9000	5.499E 04	4.751E 09	1.734E 12	1.157E 12	5.770E 11	1.656E 02
1.000	4.203E 04	3.631E 09	1.325E 12	8.330E 11	4.924E 11	9.879E 01
1.250	2.696E 04	2.327E 09	8.494E 11	4.976E 11	3.518E 11	4.906E 01
1.500	1.751E 04	1.513E 09	5.521C 11	2.983E 11	2.538E 11	2.754E 01
1.750	1.212E 04	1.047E 09	3.822E 11	1.977E 11	1.846E 11	1.799E 01
2.000	8.443E 03	7.295E 08	2.663E 11	1.311E 11	1.352E 11	1.172E 01
2.256	6.113E 03	5.279E 08	1.927E 11	8.838E 10	1.043E 11	8.562E 00
2.500	4.653E 03	3.845E 08	1.403E 11	5.968E 10	8.065E 10	6.557E 00
2.750	2.785E 03	2.406E 08	8.784E 10	2.537E 10	6.247E 10	4.504E 00
3.000	1.885E 03	1.628E 08	5.944E 10	1.697E 10	4.847E 10	2.765E 00
3.250	1.436E 03	1.163E 08	4.265E 10	3.371E 09	3.928E 10	1.649E 00
3.500	1.036E 03	8.936E 07	3.262E 10	1.043E 09	3.157E 10	1.110E 00
3.750	8.298E 02	7.992E 07	2.588E 10	3.241E 08	2.556E 10	9.522E-01
4.000	6.804E 02	5.706E 07	2.083E 10	9.433E 07	2.073E 10	7.353E-01
4.500	3.264E 02	2.812E 07	1.026E 10	3.930E 06	1.026E 10	6.500E-01
5.000	1.515E 02	1.396E 07	5.095E 09	0.0	5.095E 09	2.765E-01
5.500	4.818E 01	4.163E 06	1.519E 09	0.0	1.519E 09	1.243E-01
6.000	1.438E 01	1.243E 06	4.536E 08	0.0	4.536E 08	3.186E-02
6.500	1.305E 00	1.126E 05	4.108E 07	0.0	4.108E 07	7.109E-03
7.000	0.0	0.0	0.0	0.0	0.0	0.0

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AE17 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 1.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 5: BARRACLOUGH ET. AL. 168-TERM 1975 TIME= 1980.0 **
** VEHICLE : IRAS 600 KM ** INCLINATION= 80DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** B/L CREIT TAPE: TC5362 ** PERIOD= 1.611 **

PROTONS

** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >5.000MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	0.0	-98.929	7.37	594.28	0.03333	0.27094	1.19	0.0
2	0.0	-123.400	5.57	594.11	1.63333	0.25604	1.12	0.0
3	5.697E 02	25.253	-39.57	595.38	4.20000	0.24165	2.26	1.187E 05
4	1.286E 03	0.565	-37.80	594.64	6.80000	0.22333	1.96	4.868E 05
5	2.619E 03	-24.057	-36.03	593.98	7.40000	0.20715	1.60	1.091E 06
6	2.188E 03	-46.678	-34.26	593.48	9.00000	0.19558	1.37	9.762E 05
7	2.327E 02	-74.475	-25.15	590.83	10.56667	0.20371	1.20	7.006E 04
8	0.0	91.403	9.54	594.51	11.30000	0.30345	1.01	0.0
9	5.048E 01	36.492	-38.01	600.09	14.30000	0.25515	2.24	1.785E 04
10	1.150E 03	11.823	-39.78	600.59	15.90000	0.23070	2.15	2.771E 05
11	1.524E 03	-10.036	-26.97	597.35	17.56667	0.21363	1.53	7.004E 05
12	3.313E 03	-36.908	-36.04	600.73	19.13333	0.20040	1.40	1.159E 06
13	1.422E 03	-59.156	-30.52	598.44	20.76666	0.19357	1.28	6.141E 05
14	9.482E 00	-82.557	-24.99	597.33	22.39999	0.21404	1.19	2.102E 03

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AE17 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 1.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 5: BARRACLOUGH ET. AL. 168-TERM 1975 TIME= 1980.0 **
** VEHICLE : IRAS 600 KM ** INCLINATION= 80DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** B/L CREIT TAPE: TC5362 ** PERIOD= 1.611 **

ELECTRONS LO

** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >.5000MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	1.649E 05	76.953	-50.33	599.46	1.03333	0.40512	4.58	7.458E 07
2	2.238E 05	55.023	-55.73	601.27	2.66667	0.34561	4.67	9.476E 07
3	2.845E 05	33.964	-61.06	602.92	4.30000	0.31561	4.61	1.184E 08
4	3.051E 05	14.346	-66.25	604.43	5.93333	0.31436	4.55	1.380E 08
5	2.438E 05	-2.734	-71.20	605.80	7.56667	0.33023	4.69	1.519E 08
6	1.835E 05	-29.696	-69.65	606.54	9.16667	0.32067	3.69	1.248E 08
7	2.436E 05	-43.897	-74.29	606.82	10.80000	0.35224	4.21	9.474E 07
8	2.134E 05	57.123	-50.71	603.62	12.63333	0.33803	3.81	1.249E 08
9	3.444E 05	28.471	-59.54	605.73	14.20000	0.30002	4.12	1.936E 08
10	3.219E 05	-3.662	-68.04	607.38	15.76667	0.31255	4.09	1.949E 08
11	2.400E 05	-44.837	-75.62	608.31	17.33331	0.35965	4.51	1.622E 08
12	2.078E 05	-35.908	-36.04	599.73	19.13332	0.20040	1.49	1.539E 08
13	1.846E 05	-84.603	-72.67	608.13	20.56667	0.38135	3.92	9.599E 07
14	1.349E 05	-46.600	-49.94	603.59	21.13332	0.40628	3.76	6.660E 07

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Table 19

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AE17 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 1.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 2: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1980.0 **
** VEHICLE : IRAS 900 KM ** INCLINATION= 99DEG ** PERIGEE= 900KM ** APOGEE= 900KM ** B/L ORBIT TAPE: TD5376 ** PERIOD= 1.716 **

** PROTONS **
** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >6.000MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	9.838E 03	-52.434	-26.34	913.81	0.73333	0.16885	1.30	4.032E 06
2	3.292E 03	-77.180	-30.02	918.09	2.43333	0.19074	1.30	1.247E 06
3	6.113E 01	-105.630	-19.97	911.46	4.20000	0.21069	1.21	1.709E 04
4	1.904E 02	47.219	-37.00	914.03	5.33333	0.25301	2.30	3.885E 04
5	2.873E 03	22.596	-33.32	912.37	7.03333	0.21414	1.98	1.671E 06
6	4.321E 03	-0.239	-22.75	907.98	8.70000	0.19654	1.52	2.841E 06
7	8.650E 03	-28.792	-32.81	912.01	10.46667	0.18086	1.53	5.034E 06
8	9.558E 03	-53.494	-29.13	910.40	12.16667	0.17151	1.33	4.132E 06
9	2.236E 03	-76.477	-18.55	906.35	13.83333	0.18190	1.20	9.588E 05
10	1.561E 02	-101.336	-14.84	905.12	15.53333	0.20264	1.17	3.346E 04
11	7.033E 01	48.737	-22.02	912.21	17.93330	0.23961	1.57	1.732E 04
12	2.258E 03	25.874	-32.58	916.10	19.59999	0.21624	1.90	8.933E 05
13	4.903E 03	-2.667	-22.53	912.44	21.36664	0.19417	1.51	2.741E 06
14	8.525E 03	-27.462	-26.22	913.80	23.06667	0.17646	1.42	5.274E 06

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AE17 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 1.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 2: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1980.0 **
** VEHICLE : IRAS 900 KM ** INCLINATION= 99DEG ** PERIGEE= 900KM ** APOGEE= 900KM ** B/L ORBIT TAPE: TD5376 ** PERIOD= 1.716 **

** ELECTRONS LO **
** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >.5000MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	7.126E 05	-50.483	-33.20	918.39	0.70000	0.17333	1.40	3.611E 08
2	2.794E 05	-39.546	-75.99	929.88	2.20000	0.32071	5.00	1.743E 08
3	2.842E 05	-72.843	-73.41	929.58	3.93333	0.32829	4.20	1.759E 08
4	3.812E 05	38.273	-57.34	922.99	5.43333	0.28066	4.36	2.426E 08
5	3.828E 05	4.253	-66.92	926.47	7.20000	0.28128	4.42	2.644E 08
6	3.398E 05	-35.488	-69.84	927.31	8.83333	0.28908	3.92	2.895E 08
7	6.247E 05	-26.853	-25.94	909.18	10.43333	0.17701	1.42	3.629E 08
8	4.897E 05	-55.536	-35.99	913.38	12.20000	0.18165	1.42	3.194E 08
9	2.095E 05	-177.020	-72.22	928.04	14.10000	0.33936	4.89	1.344E 08
10	2.135E 05	45.773	63.83	912.85	16.63332	0.37068	4.25	1.187E 08
11	2.491E 05	57.699	-49.37	922.64	17.79999	0.30276	3.77	1.402E 08
12	2.955E 05	37.773	-59.68	926.24	19.46666	0.28690	4.77	1.694E 08
13	3.994E 05	14.841	-63.21	927.33	21.16664	0.27249	4.28	2.595E 08
14	6.331E 05	-27.462	-26.22	913.80	23.06667	0.17646	1.42	3.605E 08

Table 20

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AEI7 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 1.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 5: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1980.0 **
** VEHICLE : IRAS 1200 KM ** INCLINATION= 80DEG ** PERIGEE= 1200KM ** APOGEE= 1200KM ** B/L OREIT TAPE: TC5403 ** PERIOD= 1.824 **

PROTONS

** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >5.000MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER OREIT #/CM**2/OREIT
1	9.235E 02	-127.575	-3.94	1194.06	1.80000	0.18941	1.18	4.315E 05
2	2.806E 03	41.221	-20.07	1190.21	2.83333	0.20413	1.38	1.608E 06
3	7.326E 03	14.099	-22.60	1190.70	4.66667	0.18551	1.62	5.031E 06
4	1.423E 04	-13.013	-25.14	1191.28	6.50000	0.16816	1.56	1.078E 07
5	2.057E 04	-40.984	-21.19	1190.29	8.30000	0.15115	1.33	1.553E 07
6	1.409E 04	-68.108	-23.72	1190.99	10.13333	0.15747	1.29	9.281E 06
7	4.267E 03	-96.313	-26.36	1191.76	11.96667	0.18583	1.31	2.456E 06
8	4.653E 03	36.876	-31.60	1198.54	14.40000	0.20610	2.01	2.526E 06
9	8.695E 03	8.726	-35.53	1199.59	16.20000	0.18610	2.05	5.539E 06
10	1.581E 04	-17.246	-26.35	1197.35	18.00667	0.16552	1.56	1.212E 07
11	2.107E 04	-43.538	-17.54	1195.62	19.93330	0.15024	1.30	1.580E 07
12	1.224E 04	-72.356	-27.96	1197.93	21.70000	0.16353	1.33	8.096E 06
13	3.612E 03	-99.446	-25.44	1197.45	23.53331	0.18896	1.30	1.949E 06

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AEI7 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 1.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 5: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1980.0 **
** VEHICLE : IRAS 1200 KM ** INCLINATION= 80DEG ** PERIGEE= 1200KM ** APOGEE= 1200KM ** B/L OREIT TAPE: TC5403 ** PERIOD= 1.824 **

ELECTRONS LO

** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >.5000MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/OREIT
1	2.834E 05	-141.418	-61.64	1206.63	1.60000	0.33698	4.03	1.866E 08
2	4.426E 05	48.178	-52.23	1200.60	3.00000	0.25756	4.08	2.671E 08
3	4.507E 05	13.312	-16.11	1189.28	4.63333	0.18392	1.46	3.866E 08
4	1.018E 06	-13.844	-18.65	1189.71	6.46667	0.16566	1.43	6.490E 08
5	1.771E 06	-40.101	-27.67	1192.01	8.33333	0.15450	1.42	9.413E 08
6	1.091E 06	-67.165	-30.20	1192.85	10.16667	0.16233	1.36	6.756E 08
7	3.172E 05	58.587	-53.27	1204.58	12.46667	0.28056	4.73	3.217E 08
8	4.842E 05	29.294	-57.10	1205.49	14.26667	0.24042	4.15	4.046E 08
9	4.843E 05	11.638	-16.13	1196.24	16.20000	0.18238	1.46	5.272E 08
10	1.066E 06	-15.641	-13.59	1194.92	18.13332	0.16320	1.35	7.621E 08
11	1.534E 06	-45.295	-30.49	1198.39	19.86664	0.15566	1.43	9.739E 08
12	7.477E 05	-73.421	-34.42	1199.57	21.66664	0.17373	1.41	6.058E 08
13	2.611E 05	-119.206	-69.47	1208.28	23.29999	0.32467	4.65	2.229E 08

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Table 21

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AE17 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 2.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 5.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY JAVARA OF 1972 WITH ALLMAG, MODEL 5: BARRACLOUGH ET. AL. I68-TERM 1975 TIME= 1980.0 **
** VEHICLE : IRAS 600 KM ** INCLINATION= 80DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** B/L ORBIT TAPE: TD5362 ** PERIOD= 1.611 **

PROTONS

** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >6.0004EV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	0.0	-58.929	7.37	594.28	0.03333	0.27094	1.19	0.0
2	0.0	-123.400	5.57	594.11	1.63333	0.25604	1.12	0.0
3	1.139E 03	25.253	-39.57	595.38	4.20000	0.24165	2.26	2.374E 05
4	2.572E 03	0.585	-37.80	594.64	5.80000	0.22337	1.95	9.736E 05
5	5.237E 03	-24.057	-36.03	593.98	7.40000	0.20715	1.60	2.182E 06
6	4.376E 03	-46.678	-34.26	593.48	9.00000	0.19558	1.37	1.952E 06
7	4.654E 02	-74.475	-25.15	590.83	10.56667	0.20371	1.20	1.401E 05
8	0.0	91.403	9.54	594.51	11.30000	0.30349	1.01	0.0
9	1.810E 02	36.492	-38.01	600.89	14.30000	0.28519	2.24	3.870E 04
10	2.300E 03	11.823	-39.78	600.59	15.90000	0.23070	2.15	5.542E 05
11	3.048E 03	-10.036	-26.97	597.35	17.56667	0.21363	1.53	1.401E 06
12	6.626E 03	-35.908	-36.04	599.73	19.13332	0.20040	1.49	2.318E 06
13	2.844E 03	-59.156	-30.52	598.44	20.76666	0.19357	1.28	1.228E 06
14	1.859E 01	-82.557	-24.99	597.33	22.39999	0.21404	1.19	4.200E 03

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AE17 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 2.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 5.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY JAVARA OF 1972 WITH ALLMAG, MODEL 5: BARRACLOUGH ET. AL. I68-TERM 1975 TIME= 1980.0 **
** VEHICLE : IRAS 600 KM ** INCLINATION= 80DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** B/L ORBIT TAPE: TD5362 ** PERIOD= 1.611 **

ELECTRONS HI

** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >.5000MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	1.669E 05	76.953	-50.33	599.86	1.03333	0.40512	4.56	7.458E 07
2	2.238E 05	55.023	-55.73	601.27	2.66667	0.34581	4.67	9.612E 07
3	2.845E 05	33.964	-61.06	602.92	4.30000	0.31561	4.61	1.462E 08
4	4.309E 05	-0.813	-30.50	592.25	5.76667	0.22111	1.69	3.348E 08
5	8.749E 05	-25.379	-28.72	591.65	7.36666	0.20114	1.44	3.636E 08
6	6.299E 05	-47.089	-41.54	596.01	9.03333	0.20968	1.52	2.882E 08
7	2.436E 05	-43.857	-74.29	606.82	10.80000	0.39224	4.21	1.030E 08
8	2.134E 05	57.123	-50.71	603.62	12.63333	0.33803	3.81	1.249E 08
9	3.444E 05	28.471	-59.54	605.73	14.20000	0.30002	4.12	2.012E 08
10	3.219E 05	-3.662	-68.04	607.38	15.76667	0.31255	4.09	2.392E 08
11	5.906E 05	-11.267	-34.27	599.16	17.53331	0.21389	1.70	3.135E 08
12	1.039E 06	-36.968	-36.04	599.73	19.13332	0.20040	1.49	3.995E 08
13	3.107E 05	-60.551	-37.81	600.33	20.73331	0.20701	1.38	1.563E 08
14	1.249E 05	-46.609	49.94	603.59	21.13332	0.40528	3.76	6.974E 07

Table 22

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AEI7 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 2.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 5.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 2: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1980.0 **
** VEHICLE : IRAS 900 K4 ** INCLINATION= 99DEG ** PERIGEE= 900KM ** APOGEE= 900KM ** B/L ORBIT TAPE: TD5376 ** PERIOD= 1.716 **

PROTONS

** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >5.000MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	1.966E 04	-52.434	-26.34	913.81	0.73333	0.16885	1.30	9.646E 06
2	5.583E 03	-77.160	-30.02	915.09	2.43333	0.19074	1.30	2.693E 06
3	1.223E 02	-105.630	-19.97	911.46	4.20000	0.21069	1.21	3.418E 04
4	3.809E 02	47.214	-37.00	914.03	5.33333	0.25301	2.30	7.328E 04
5	3.747E 03	22.596	-33.32	912.37	7.03333	0.21414	1.98	2.142E 06
6	8.643E 03	-0.239	-22.75	907.98	8.70000	0.19654	1.52	5.683E 06
7	1.730E 04	-28.762	-32.81	912.01	10.46667	0.18086	1.53	1.007E 07
8	1.714E 04	-53.494	-29.13	910.40	12.16667	0.17151	1.33	8.264E 06
9	4.472E 03	-76.477	-18.55	906.35	13.83333	0.18190	1.20	1.920E 06
10	3.121E 02	-101.336	-14.84	905.12	15.53333	0.20264	1.17	6.692E 04
11	1.407E 02	48.737	-22.02	912.21	17.93330	0.23961	1.57	3.465E 04
12	4.516E 03	25.874	-32.58	916.10	19.59999	0.21624	1.96	1.787E 06
13	9.885E 03	-2.667	-22.53	912.44	21.36664	0.19417	1.51	5.482E 06
14	1.705E 04	-27.462	-26.22	913.80	23.06657	0.17646	1.42	1.055E 07

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AEI7 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 2.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 5.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 2: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1980.0 **
** VEHICLE : IRAS 900 K4 ** INCLINATION= 99DEG ** PERIGEE= 900KM ** APOGEE= 900KM ** B/L ORBIT TAPE: TD5376 ** PERIOD= 1.716 **

ELECTRONS HI

** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >.5000MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	3.563E 06	-50.483	-33.20	916.39	0.70000	0.17553	1.40	1.263E 09
2	7.624E 05	-75.109	-35.86	917.75	2.40000	0.20107	1.41	3.531E 08
3	2.842E 05	-72.840	-73.41	929.58	3.93333	0.32829	4.20	1.763E 08
4	3.812E 05	38.273	-57.34	922.99	5.43333	0.28066	4.36	2.565E 08
5	5.663E 05	24.563	-36.45	909.47	7.00000	0.21427	1.72	4.250E 08
6	1.179E 06	-0.239	-22.75	907.98	8.70000	0.19654	1.52	6.647E 08
7	3.123E 06	-26.850	-25.94	909.14	10.43333	0.17701	1.42	1.305E 09
8	2.448E 06	-55.536	-35.99	913.38	12.20000	0.18165	1.42	1.079E 09
9	3.324E 05	-82.340	-39.16	914.83	13.93333	0.21783	1.46	2.219E 08
10	2.135E 05	45.773	63.83	912.85	16.63332	0.37068	4.25	1.190E 08
11	2.491E 05	57.699	-49.37	922.64	17.79999	0.30276	3.77	1.536E 08
12	5.708E 05	23.940	-25.72	913.51	19.63332	0.21349	1.69	3.297E 08
13	1.381E 06	-2.667	-22.53	912.44	21.36664	0.19417	1.51	6.463E 08
14	3.195E 06	-27.462	-26.22	913.80	23.06667	0.17646	1.42	1.214E 09

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Table 23

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AEI7 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 2.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 5.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 5: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 190000 **
** VEHICLE : IRAS 1200 KM ** INCLINATION= 80DEG ** PERIGEE= 1200KM ** APOGEE= 1200KM ** B/L ORBIT TAPE: TD5403 ** PERIOD= 1.826 **

PROTONS

** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >5.000MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	1.847E 03	-127.575	-3.94	1194.06	1.80000	0.18941	1.18	8.630E 05
2	5.613E 03	41.231	-20.07	1190.21	2.83333	0.20413	1.56	3.216E 06
3	1.465E 04	14.099	-22.60	1190.70	4.66667	0.18551	1.62	1.006E 07
4	2.846E 04	-13.013	-25.14	1191.28	6.50000	0.16816	1.56	2.156E 07
5	4.114E 04	-40.984	-21.19	1190.29	8.30000	0.15115	1.33	3.108E 07
6	2.819E 04	-68.108	-23.72	1190.99	10.13333	0.15747	1.29	1.856E 07
7	6.633E 03	-96.212	-26.26	1191.76	11.96667	0.16582	1.31	4.911E 06
8	9.306E 03	36.876	-31.60	1198.54	14.40000	0.20610	2.01	5.051E 06
9	1.739E 04	8.726	-35.53	1199.59	16.20000	0.18610	2.05	1.188E 07
10	3.161E 04	-17.248	-28.55	1197.35	18.06667	0.16892	1.56	2.423E 07
11	4.214E 04	-43.538	-17.54	1195.62	19.93330	0.15024	1.30	3.161E 07
12	2.448E 04	-72.356	-27.96	1197.93	21.70000	0.16353	1.33	1.619E 07
13	7.224E 03	-99.446	-25.44	1197.45	23.53331	0.18896	1.30	3.897E 06

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AEI7 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 2.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 5.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 5: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 190000 **
** VEHICLE : IRAS 1200 KM ** INCLINATION= 80DEG ** PERIGEE= 1200KM ** APOGEE= 1200KM ** B/L ORBIT TAPE: TD5403 ** PERIOD= 1.826 **

ELECTRONS HI

** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >.5000MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	2.834E 05	-141.418	-61.64	1206.63	1.50000	0.33598	4.03	2.031E 08
2	7.763E 05	41.231	-20.07	1190.21	2.83333	0.20413	1.56	4.858E 08
3	2.253E 06	13.312	-16.11	1189.28	4.63333	0.18392	1.46	1.041E 09
4	5.089E 06	-13.844	-18.65	1189.71	6.46667	0.16566	1.43	2.391E 09
5	8.854E 06	-40.101	-27.67	1192.01	8.33333	0.15450	1.42	3.904E 09
6	5.456E 06	-67.165	-30.20	1192.85	10.16667	0.14233	1.36	2.549E 09
7	1.058E 06	-94.159	-32.71	1193.72	12.00000	0.13649	1.40	6.523E 08
8	1.016E 06	38.684	-18.66	1195.66	14.46667	0.20053	1.52	6.885E 08
9	2.422E 06	11.528	-16.13	1195.24	16.29999	0.18238	1.46	1.268E 09
10	5.329E 06	-15.641	-13.59	1194.92	18.13332	0.16320	1.35	2.788E 09
11	7.672E 06	-45.295	-30.49	1198.39	19.86664	0.15566	1.43	4.026E 09
12	3.739E 06	-73.421	-34.42	1199.67	21.66664	0.17376	1.41	2.272E 09
13	6.637E 05	-100.433	-31.91	1199.02	23.49998	0.20281	1.40	4.320E 08

Table 24

TABLE _

IRAS 600 KM
CIRCULAR
INCLINATION: 60 DEG
PERIGEE: 600 KM
APOGEE: 600 KM

**** EXPOSURE ANALYSIS ****

	PROTONS (E>5.000MEV)	ELECTRONS LO (E>.5000MEV)
PERCENT OF TOTAL LIFE-TIME SPENT IN FLUX-FREE REGIONS* OF SPACE :	90.82 %	62.59 %
PERCENT OF TOTAL LIFE-TIME SPENT IN HIGH-INTENSITY REGIONS+ OF VAN ALLEN BELTS :	3.06 %	5.76 %
PERCENT OF TOTAL DAILY FLUX ACCUMULATED IN HIGH-INTENSITY REGIONS:	75.19 %	66.83 %

****

* <1 PARTICLE/CM**2/SEC
+ >1.E5 EL/CM**2/SEC OR 1.E3 PR/CM**2/SEC

TABLE _

IRAS 600 KM
CIRCULAR
INCLINATION: 80 DEG
PERIGEE: 600 KM
APOGEE: 600 KM

* PERCENT OF TOTAL LIFETIME SPENT INSIDE AND *
* OUTSIDE THE TRAPPED-PARTICLE RADIATION BELT *

INNER ZONE -TI-* (1.0 < L < 2.8) :	58.41 %
OUTER ZONE -TO- (2.8 < L < 11.0) :	27.54 %
EXTERNAL -TE- (L > 11.0) :	14.05 %
TOTAL :	100.00 %

*TIME IN INNER ZONE MAY BE SUBDIVIDED AS FOLLOWS:

OUTSIDE TRAPPING REGION (1.0 < L < 1.1) :	7.93 %
INSIDE TRAPPING REGION (1.1 < L < 2.8) :	50.49 %

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Table 25

TABLE _

IRAS 900 KM
CIRCULAR
INCLINATION: 99 DEG
PERIGEE: 900 KM
APOGEE: 900 KM

**** EXPOSURE ANALYSIS ****

	PROTONS (E>5.000MEV)	ELECTRONS LO (E>.5000MEV)
PERCENT OF TOTAL LIFE-TIME SPENT IN FLUX-FREE REGIONS* OF SPACE :	83.18 %	53.79 %
PERCENT OF TOTAL LIFE-TIME SPENT IN HIGH-INTENSITY REGIONS+ OF VAN ALLEN BELTS :	8.62 %	15.29 %
PERCENT OF TOTAL DAILY FLUX ACCUMULATED IN HIGH-INTENSITY REGIONS:	95.66 %	83.12 %

****

* <1 PARTICLE/CM**2/SEC
+ >1.E5 EL/CM**2/SEC OR 1.E3 PR/CM**2/SEC

TABLE _

IRAS 900 KM
CIRCULAR
INCLINATION: 99 DEG
PERIGEE: 900 KM
APOGEE: 900 KM

* PERCENT OF TOTAL LIFETIME SPENT INSIDE AND *
* OUTSIDE THE TRAPPED-PARTICLE RADIATION BELT *

INNER ZONE -TI-* (1.0 < L < 2.8) :	56.48 %
OUTER ZONE -TO- (2.8 < L < 11.0) :	27.52 %
EXTERNAL -TE- (L > 11.0) :	15.50 %
TOTAL :	100.00 %

*TIME IN INNER ZONE MAY BE SUBDIVIDED AS FOLLOWS:

OUTSIDE TRAPPING REGION (1.0 < L < 1.1) :	2.36 %
INSIDE TRAPPING REGION (1.1 < L < 2.8) :	54.62 %

Table 26

IRAS 1200 KM
CIRCULAR
INCLINATION: 80 DEG
PERIGEE: 1200 KM
APOGEE: 1200 KM

**** EXPOSURE ANALYSIS ****

	PROTONS (E>5.000MEV)	ELECTRONS LO (E>.5000MEV)
PERCENT OF TOTAL LIFE-TIME SPENT IN FLUX-FREE REGIONS* OF SPACE :	65.81 %	34.08 %
PERCENT OF TOTAL LIFE-TIME SPENT IN HIGH-INTENSITY REGIONS+ OF VAN ALLEN BELTS :	14.33 %	23.64 %
PERCENT OF TOTAL DAILY FLUX ACCUMULATED IN HIGH-INTENSITY REGIONS:	95.86 %	91.74 %

****

IRAS 1200 KM
CIRCULAR
INCLINATION: 80 DEG
PERIGEE: 1200 KM
APOGEE: 1200 KM

* PERCENT OF TOTAL LIFETIME SPENT INSIDE AND OUTSIDE THE TRAPPED-PARTICLE RADIATION BELT *

INNER ZONE -TI-* (1.0 < L < 2.8) :	56.19 %
OUTER ZONE -TO- (2.8 < L < 11.0) :	28.51 %
EXTERNAL -TE- (L > 11.0) :	15.30 %
TOTAL :	100.00 %

*TIME IN INNER ZONE MAY BE SUBDIVIDED AS FOLLOWS:

OUTSIDE TRAPPING REGION (1.0 < L < 1.1) :	0.0 %
INSIDE TRAPPING REGION (1.1 < L < 2.8) :	56.19 %

* <1 PARTICLE/CM**2/SEC
+ >1.E5 EL/CM**2/SEC OR 1.E3 PR/CM**2/SEC

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Table 27

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AE17 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 1.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY IRVAFA OF 1972 WITH ALLMAG, MODEL - 61 - BARRACLOUGH ET. AL. 168-TERM 1975 - * TIME= 1980.0 **
** VEHICLE : IRAS 600 KM ** INCLINATION= 80DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** B/L CREIT TAPE: TC5362 ** PERIOD= 1.611 **

****** ENERGETIC SOLAR PROTON FLUENCE ******
***** FOR CUTOFF DIPOLE SHELL L=5 ER *****
############ (PARTICLES/CM**2)##########

ENERGY LEVELS >(MEV)	MISSION DURATION T=12. MONTHS CONFIDENCE LEVEL Q(%) EX	85	90	95	99	GEOMAGNETIC SHIELDING DIPOLE CUTOFF SHELL	PERCENT EXPOSURE TIME
10.0	4.604E 09	4.604E 09	4.604E 09	4.604E 09	9.208E 09	L>4	32.27
20.0	3.157E 09	3.157E 09	3.157E 09	3.157E 09	6.314E 09	L>5	27.40
30.0	2.165E 09	2.165E 09	2.165E 09	2.165E 09	4.329E 09	L>6	23.50
40.0	1.484E 09	1.484E 09	1.484E 09	1.484E 09	2.966E 09	L>7	20.58
50.0	1.018E 09	1.018E 09	1.018E 09	1.018E 09	2.035E 09		
60.0	6.978E 08	6.978E 08	6.978E 08	6.978E 08	1.396E 09		
70.0	4.784E 08	4.784E 08	4.784E 08	4.784E 08	9.569E 08		
80.0	3.280E 08	3.280E 08	3.280E 08	3.280E 08	6.561E 08		
90.0	2.249E 08	2.249E 08	2.249E 08	2.249E 08	4.499E 08		
100.0	1.542E 08	1.542E 08	1.542E 08	1.542E 08	3.085E 08		
110.0	1.058E 08	1.058E 08	1.058E 08	1.058E 08	2.115E 08		
120.0	7.251E 07	7.251E 07	7.251E 07	7.251E 07	1.450E 08		
130.0	4.972E 07	4.972E 07	4.972E 07	4.972E 07	9.944E 07		
140.0	3.409E 07	3.409E 07	3.409E 07	3.409E 07	6.816E 07		
150.0	2.337E 07	2.337E 07	2.337E 07	2.337E 07	4.675E 07		
160.0	1.602E 07	1.603E 07	1.602E 07	1.603E 07	3.206E 07		
170.0	1.099E 07	1.099E 07	1.099E 07	1.099E 07	2.198E 07		
180.0	7.535E 06	7.535E 06	7.535E 06	7.535E 06	1.507E 07		
190.0	5.167E 06	5.167E 06	5.167E 06	5.167E 06	1.033E 07		
200.0	3.543E 06	3.543E 06	3.543E 06	3.543E 06	7.085E 06		

Table 28

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AE17 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 1.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 2; BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1980.0 **
** VEHICLE : IRAS 900 KM ** INCLINATION= 99DEG ** PERIGEE= 900KM ** APOGEE= 900KM ** B/L ORBIT TAPE: TD5376 ** PERIOD= 1.716 **

****** ENERGETIC SOLAR PROTON FLUENCE ******
***** FOR CUTOFF DIPOLE SHELL L=5 ER *****
********** (PARTICLES/CM**2)**********

ENERGY LEVELS >(MEV)	MISSION DURATION T=12. MONTHS CONFIDENCE LEVEL Q(%) 80	85	90	95	99	GEOMAGNETIC DIPOLE CUTOFF SHELL	SHIELDING PERCENT EXPOSURE TIME
10.0	4.834E 09	4.834E 09	4.834E 09	4.834E 09	9.669E 09	L>4	33.56
20.0	3.315E 09	3.315E 09	3.315E 09	3.315E 09	6.629E 09	L>5	28.77
30.0	2.273E 09	2.273E 09	2.273E 09	2.273E 09	4.546E 09	L>6	26.02
40.0	1.558E 09	1.558E 09	1.558E 09	1.558E 09	3.117E 09	L>7	22.24
50.0	1.069E 09	1.069E 09	1.069E 09	1.069E 09	2.137E 09		
60.0	7.327E 08	7.327E 08	7.327E 08	7.327E 08	1.465E 09		
70.0	5.024E 08	5.024E 08	5.024E 08	5.024E 08	1.005E 09		
80.0	3.445E 08	3.445E 08	3.445E 08	3.445E 08	6.889E 08		
90.0	2.362E 08	2.362E 08	2.362E 08	2.362E 08	4.724E 08		
100.0	1.619E 08	1.619E 08	1.619E 08	1.619E 08	3.239E 08		
110.0	1.110E 08	1.110E 08	1.110E 08	1.110E 08	2.221E 08		
120.0	7.614E 07	7.614E 07	7.614E 07	7.614E 07	1.523E 08		
130.0	5.221E 07	5.221E 07	5.221E 07	5.221E 07	1.044E 08		
140.0	3.580E 07	3.580E 07	3.580E 07	3.580E 07	7.159E 07		
150.0	2.454E 07	2.454E 07	2.454E 07	2.454E 07	4.909E 07		
160.0	1.683E 07	1.683E 07	1.683E 07	1.683E 07	3.366E 07		
170.0	1.154E 07	1.154E 07	1.154E 07	1.154E 07	2.308E 07		
180.0	7.912E 06	7.912E 06	7.912E 06	7.912E 06	1.582E 07		
190.0	5.425E 06	5.425E 06	5.425E 06	5.425E 06	1.085E 07		
200.0	3.720E 06	3.720E 06	3.720E 06	3.720E 06	7.440E 06		

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Table 29

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AEI7 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) = UF= 1.0; FOR INNER ZONE ELECTRONS (AE6) = UF= 1.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 5: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1980.0 **
** VEHICLE : IRAS 1200 KM ** INCLINATION= 80DEG ** PERIGEE= 1200KM ** APOGEE= 1200KM ** B/L OREIT TAPE: IC5403 ** PERIOD= 1.824 **

****** ENERGETIC SOLAR PROTON FLUENCE ******
***** FOR CUTOFF DIPOLE SHELL L=6 ER *****
************ (PARTICLES/CM**2)************

ENERGY LEVELS >(MEV)	MISSION DURATION T=12, MONTHS CONFIDENCE LEVEL Q(%) 80	85	90	95	99	GEOMAGNETIC SHIELDING DIPOLE CUTOFF SHELL	PERCENT EXPOSURE TIME
10.0	4.90E 09	4.90E 09	4.90E 09	4.90E 09	9.81E 09	L>4	34.21
20.0	3.36E 09	3.365E 09	3.365E 09	3.365E 09	6.730E 09	L>5	29.21
30.0	2.30E 09	2.307E 09	2.307E 09	2.307E 09	4.615E 09	L>6	25.17
40.0	1.50E 09	1.502E 09	1.502E 09	1.502E 09	3.164E 09	L>7	21.04
50.0	1.08E 09	1.085E 09	1.085E 09	1.085E 09	2.17CE 09		
60.0	7.43E 08	7.438E 08	7.438E 08	7.438E 08	1.48CE 09		
70.0	5.10E 08	5.100E 08	5.100E 08	5.100E 08	1.020E 09		
80.0	3.49E 08	3.497E 08	3.497E 08	3.497E 08	6.954E 08		
90.0	2.39E 08	2.398E 08	2.398E 08	2.398E 08	4.756E 08		
100.0	1.64E 08	1.644E 08	1.644E 08	1.644E 08	3.288E 08		
110.0	1.12E 08	1.127E 08	1.127E 08	1.127E 08	2.255E 08		
120.0	7.73E 07	7.730E 07	7.730E 07	7.730E 07	1.546E 08		
130.0	5.30E 07	5.300E 07	5.300E 07	5.300E 07	1.06CE 08		
140.0	3.63E 07	3.634E 07	3.634E 07	3.634E 07	7.268E 07		
150.0	2.49E 07	2.492E 07	2.492E 07	2.492E 07	4.983E 07		
160.0	1.70E 07	1.708E 07	1.708E 07	1.708E 07	3.417E 07		
170.0	1.17E 07	1.171E 07	1.171E 07	1.171E 07	2.343E 07		
180.0	8.03E 06	8.032E 06	8.032E 06	8.032E 06	1.606E 07		
190.0	5.50E 06	5.508E 06	5.508E 06	5.508E 06	1.102E 07		
200.0	3.77E 06	3.776E 06	3.776E 06	3.776E 06	7.553E 06		

Table 30

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AE17 FOR SOLAR MAXIMUM *** UNIFLUX OF 1978 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 1.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 5: BARRACLOUGH ET. AL. 168-TERM 1975 TIME= 1980.0 **
** VEHICLE : IRAS 600 KM ** INCLINATION= 80DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** B/L CREIT TAPE: TC5362 ** PERIOD= 1.611 **

***** ALUMINUM DOSE FOR MISSION DURATION OF: 1.00 YEAR(S) *****

SHIELD THICKNESS (ALUMINUM)			ELECTRONS*			BREMSSTR-AHLUNG	PROTONS			TOTAL DOSE
Z (GM/CM**2)	T (MM)	T (MILS)	INNER ZN. (RADS-AL)	OUTER ZN. (RADS-AL)	TOTAL (RADS-AL)	TOTAL (RADS-AL)	TRAPPED** (RADS-AL)	SOLAR+ (RADS-AL)	TOTAL (RADS-AL)	ALL SOURCES (RADS-AL)
0.01	0.04	1	8.516E 04	5.023E 04	1.354E 05	0.0	1.136E C3	4.151E 02	1.552E 03	1.369E 05
0.02	0.07	3	4.247E 04	3.238E 04	7.485E 04	1.193E 00	3.989E C2	3.892E 02	7.881E 02	7.564E 04
0.03	0.11	4	2.516E 04	2.425E 04	4.941E 04	1.037E 00	3.152E C2	3.652E 02	6.804E 02	5.015E 04
0.04	0.15	6	1.615E 04	1.945E 04	3.561E 04	9.542E-01	2.446E 02	3.552E 02	5.996E 02	3.621E 04
0.05	0.19	7	1.090E 04	1.624E 04	2.714E 04	3.411E 00	1.988E C2	3.432E 02	5.420E 02	2.768E 04
0.06	0.22	9	7.612E 03	1.393E 04	2.155E 04	3.089E 00	1.719E C2	3.335E 02	5.051E 02	2.264E 04
0.07	0.26	10	5.457E 03	1.216E 04	1.762E 04	2.895E 00	1.534E C2	3.250E 02	4.784E 02	1.810E 04
0.08	0.30	12	3.996E 03	1.077E 04	1.477E 04	2.755E 00	1.385E 02	3.173E 02	4.558E 02	1.522E 04
0.09	0.33	13	2.981E 03	9.651E 03	1.263E 04	2.644E 00	1.270E C2	3.107E 02	4.377E 02	1.307E 04
0.10	0.37	15	2.261E 03	8.724E 03	1.099E 04	2.553E 00	1.171E C2	3.043E 02	4.215E 02	1.141E 04
0.20	0.74	29	3.206E 02	4.253E 03	4.573E 03	2.058E 00	7.417E 01	2.565E 02	3.337E 02	4.905E 03
0.30	1.11	44	1.109E 02	2.461E 03	2.571E 03	1.617E 00	5.878E C1	2.300E 02	2.888E 02	2.862E 03
0.40	1.48	58	5.531E 01	1.480E 03	1.535E 03	1.658E 00	5.038E C1	2.080E 02	2.584E 02	1.795E 03
0.50	1.85	73	3.231E 01	9.282E 02	9.605E 02	1.542E 00	4.500E C1	1.868E 02	2.318E 02	1.197E 03
0.60	2.22	87	2.014E 01	6.045E C2	6.247E 02	1.451E 00	4.152E C1	1.741E C2	2.156E 02	8.417E 02
0.80	2.96	117	8.231E 00	2.842E 02	2.924E 02	1.314E 00	3.654E C1	1.655E C2	1.655E 02	4.791E 02
1.00	3.70	146	3.154E 00	1.477E 02	1.508E 02	1.212E 00	3.379E 01	1.287E 02	1.625E 02	3.145E 02
1.25	4.63	182	7.568E-01	6.685E 01	6.761E 01	1.115E 00	3.117E 01	1.089E 02	1.401E 02	2.088E 02
1.50	5.56	219	1.393E-01	2.837E 01	2.851E 01	1.038E 00	2.935E C1	9.324E C1	1.226E 02	1.521E 02
1.75	6.48	255	2.153E-02	1.090E 01	1.092E 01	9.747E-01	2.800E C1	8.082E 01	1.088E 02	1.207E 02
2.00	7.41	292	3.074E-03	3.778E 00	3.781E 00	9.209E-01	2.694E C1	7.671E 01	9.765E 01	1.024E 02
2.50	9.26	365	6.437E-05	3.622E-01	3.623E-01	8.327E-01	2.501E 01	6.633E C1	8.933E 01	8.163E 01
3.00	11.11	437	1.576E-06	3.281E-02	3.281E-02	7.619E-01	2.305E C1	4.438E 01	6.743E 01	6.823E 01
3.50	12.96	510	4.373E-08	3.236E-03	3.236E-03	7.026E-01	2.137E 01	3.626E 01	5.762E 01	5.833E 01
4.00	14.81	583	1.323E-09	3.354E-04	3.354E-04	6.513E-01	2.004E C1	3.004E C1	5.007E 01	5.072E 01
5.00	18.52	729	1.388E-12	3.704E-06	3.704E-06	5.665E-01	1.802E C1	2.128E 01	3.930E 01	3.987E 01
6.00	22.22	875	1.434E-15	3.640E-08	3.640E-08	4.972E-01	1.631E C1	1.558E C1	3.188E 01	3.236E 01
8.00	29.63	1167	7.289E-22	2.012E-12	2.012E-12	3.892E-01	1.341E 01	8.526E 00	2.234E 01	2.273E 01
10.00	37.04	1458	1.737E-28	6.293E-17	6.293E-17	3.080E-01	1.133E C1	5.445E C0	1.678E 01	1.709E 01

* ELECTRON MODELS:

AE6: INNER ZONE-SOLAR MAX
NO UNCERTAINTY FACTOR WAS APPLIED TO THE MODEL DATA.

AE17: OUTER ZONE-INTERIM MODEL WITHOUT SOLAR CYCLE DEPENDENCE.
FOR ENERGIES ABOVE 1.5 MEV. THIS MODEL CONTAINS UPPER & LOWER LIMIT VALUES TO ACCOUNT FOR DISCREPANCY BETWEEN EXISTING DATA SETS. THE AE17-HI FAVORS VANFLA'S FIT TO OV1-19 DATA WHILE AE17-LO IS MORE REPRESENTATIVE OF ALL THE DATA SETS PRESENTLY AVAILABLE TO NSSDC.

>> THE AE17-LO VERSION WAS USED FOR THESE CALCULATIONS <<

** PROTON MODEL:

AP8-MAX: TRAPPED PROTONS-SOLAR MAX
NO UNCERTAINTY FACTOR WAS APPLIED TO THE MODEL DATA.

+ SOLAR PROTON MODEL:

SOLPRC: SOLAR FLARE PROTONS AT 1 AU
(UNATTENUATED, INTERPLANETARY)
FOR CUTOFF DIPOLE SHELL OF 5 E.R.

FOR TAU=12.NO.,Q=50%: # OF AL EVENTS=1
72.6% GEOMAGNETIC SHIELDING APPLIED

NOTE: Q DENOTES THE DEGREE OF CONFIDENCE ONE WISHES TO ASSIGN TO RESULTS, NAMELY THAT FOR THE SPECIFIC MISSION DURATION THE CALCULATED FLUENCES ARE THE SMALLEST VALUES WHICH WILL NOT BE EXCEEDED BY ACTUALLY ENCOUNTERED INTENSITIES.

IT IS NOT ADVISABLE TO EXTRAPOLATE THE SOLAR PROTON SPECTRA NEITHER TOWARDS LOWER NOR TOWARDS HIGHER ENERGIES BECAUSE THE DATA SETS USED IN THE CONSTRUCTION OF THE MODEL (SATELLITE MEASUREMENTS MADE DURING THE 20TH SOLAR CYCLE: 1964-1975) DO NOT CONTAIN INFORMATION FOR E<10 AND E>200 MEV.

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Table 31

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AE17 FOR SOLAR MAXIMUM *** UNIFLUX OF 1978 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 1.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 2: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1980.0 **
** VEHICLE : IRAS 900 KM ** INCLINATION= 99DEG ** PERIGEE= 900KM ** APOGEE= 900KM ** B/L ORBIT TAPE: TD5376 ** PERIOD= 1.716 **

***** ALUMINUM DOSE FOR MISSION DURATION OF: 1.00 YEAR(S) *****

SHIELD THICKNESS (ALUMINUM) Z (GM/CM**2)	T (MM)	T (MILS)	ELECTRONS* INNER ZN. (RADS-AL)	ELECTRONS* OUTER ZN. (RADS-AL)	ELECTRONS* TOTAL (RADS-AL)	BREMSSTR-AHLUNG TOTAL (RADS-AL)	PROTONS TRAPPED** (RADS-AL)	PROTONS SOLAR+ (RADS-AL)	PROTONS TOTAL (RADS-AL)	TOTAL DOSE ALL SOURCES (RADS-AL)
0.01	0.04	1	3.402E 05	7.021E 04	4.104E 05	0.0	5.878E 03	4.400E 02	6.318E 03	4.167E 05
0.02	0.07	3	1.797E 05	4.537E 04	2.250E 05	5.401E 00	2.189E 03	4.087E 02	2.597E 03	2.276E 05
0.03	0.11	4	1.104E 05	3.401E 04	1.444E 05	4.586E 00	1.759E 03	3.877E 02	2.147E 03	1.465E 05
0.04	0.15	6	7.262E 04	2.729E 04	9.991E 04	4.195E 00	1.364E 03	3.730E 02	1.737E 03	1.017E 05
0.05	0.19	7	4.984E 04	2.277E 04	7.261E 04	7.470E 00	1.117E 03	3.604E 02	1.478E 03	7.409E 04
0.06	0.22	9	3.519E 04	1.951E 04	5.471E 04	6.879E 00	9.707E 02	3.499E 02	1.321E 03	5.603E 04
0.07	0.26	10	2.541E 04	1.703E 04	4.244E 04	6.509E 00	8.702E 02	3.413E 02	1.211E 03	4.366E 04
0.08	0.30	12	1.870E 04	1.507E 04	3.377E 04	6.215E 00	7.884E 02	3.331E 02	1.122E 03	3.490E 04
0.09	0.33	13	1.400E 04	1.349E 04	2.749E 04	5.986E 00	7.247E 02	3.263E 02	1.051E 03	2.855E 04
0.10	0.37	15	1.065E 04	1.219E 04	2.284E 04	5.796E 00	6.690E 02	3.196E 02	9.886E 02	2.384E 04
0.20	0.74	29	1.577E 03	5.913E 03	7.489E 03	4.711E 00	4.172E 02	2.725E 02	6.897E 02	8.184E 03
0.30	1.11	44	5.601E 02	3.418E 03	3.978E 03	4.167E 00	3.234E 02	2.415E 02	5.649E 02	4.547E 03
0.40	1.48	58	2.794E 02	2.067E 03	2.336E 03	3.809E 00	2.713E 02	2.184E 02	4.897E 02	2.830E 03
0.50	1.85	73	1.623E 02	1.291E 03	1.454E 03	3.544E 00	2.377E 02	1.993E 02	4.371E 02	1.894E 03
0.60	2.22	87	1.008E 02	8.420E 02	9.427E 02	3.336E 00	2.156E 02	1.828E 02	3.984E 02	1.345E 03
0.80	2.96	117	4.115E 01	3.969E 02	4.380E 02	3.023E 00	1.867E 02	1.559E 02	3.425E 02	7.836E 02
1.00	3.70	146	1.588E 01	2.068E 02	2.227E 02	2.790E 00	1.673E 02	1.351E 02	3.024E 02	5.279E 02
1.25	4.63	182	3.870E 00	9.382E 01	9.769E 01	2.567E 00	1.518E 02	1.143E 02	2.662E 02	3.664E 02
1.50	5.56	219	7.186E-01	3.983E 01	4.055E 01	2.390E 00	1.415E 02	9.791E 01	2.395E 02	2.824E 02
1.75	6.48	255	1.111E-01	1.529E 01	1.540E 01	2.244E 00	1.342E 02	8.487E 01	2.191E 02	2.367E 02
2.00	7.41	292	1.642E-02	5.283E 00	5.300E 00	2.120E 00	1.285E 02	7.425E 01	2.028E 02	2.103E 02
2.50	9.26	365	4.445E-04	4.966E-01	4.970E-01	1.916E 00	1.184E 02	5.809E 01	1.765E 02	1.789E 02
3.00	11.11	437	1.489E-05	4.289E-02	4.291E-02	1.751E 00	1.085E 02	4.660E 01	1.551E 02	1.569E 02
3.50	12.96	510	5.578E-07	3.993E-03	3.993E-03	1.613E 00	1.003E 02	3.807E 01	1.384E 02	1.400E 02
4.00	14.81	583	2.256E-08	3.910E-04	3.910E-04	1.494E 00	9.391E 01	3.154E 01	1.254E 02	1.269E 02
5.00	18.52	729	4.121E-11	3.873E-06	3.873E-06	1.295E 00	8.435E 01	2.235E 01	1.067E 02	1.080E 02
6.00	22.22	875	7.220E-14	3.426E-08	3.426E-08	1.132E 00	7.629E 01	1.635E 01	9.264E 01	9.378E 01
8.00	29.63	1167	1.076E-19	1.515E-12	1.515E-12	8.787E-01	6.280E 01	9.372E 00	7.217E 01	7.305E 01
10.00	37.04	1458	8.643E-26	3.789E-17	3.789E-17	6.888E-01	5.315E 01	5.717E 00	5.887E 01	5.956E 01

* ELECTRON MODELS:

AE6*: INNER ZONE SOLAR MAX
NO UNCERTAINTY FACTOR WAS APPLIED TO THE MODEL DATA.

AE17: OUTER ZONE-INTERIM MODEL WITHOUT SOLAR CYCLE DEPENDENCE.
FOR ENERGIES ABOVE 1.5 MEV, THIS MODEL CONTAINS UPPER & LOWER LIMIT VALUES TO ACCOUNT FOR DISCREPANCY BETWEEN EXISTING DATA SETS. THE AE17-HI FAVORS VAMPOLA'S FIT TO OV1-19 DATA WHILE AE17-LO IS MORE REPRESENTATIVE OF ALL THE DATA SETS PRESENTLY AVAILABLE TO NSSDC.

>> THE AE17-LO VERSION WAS USED FOR THESE CALCULATIONS <<

** PROTON MODEL:

AP8-MAC: TRAPPED PROTONS-SOLAR MAX
NO UNCERTAINTY FACTOR WAS APPLIED TO THE MODEL DATA.

+ SOLAR PROTON MODEL:

SOLPRO: SOLAR FLARE PROTONS AT 1 AU
(UNATTENUATED, INTERPLANETARY)
FOR CUTOFF DIPOLE SHELL OF 5 E.R.

FOR TAU=12.MO.,Q=90%: # OF AL EVENTS=1
71.23% GEOMAGNETIC SHIELDING APPLIED

NOTE: Q DENOTES THE DEGREE OF CONFIDENCE ONE WISHES TO ASSIGN TO RESULTS. NAMELY THAT FOR THE SPECIFIC MISSION DURATION THE CALCULATED FLUENCES ARE THE SMALLEST VALUES WHICH WILL NOT BE EXCEEDED BY ACTUALLY ENCOUNTERED INTENSITIES.

IT IS NOT ADVISABLE TO EXTRAPOLATE THE SOLAR PROTON SPECTRA NEITHER TOWARDS LOWER NOR TOWARDS HIGHER ENERGIES BECAUSE THE DATA SETS USED IN THE CONSTRUCTION OF THE MODEL (SATELLITE MEASUREMENTS MADE DURING THE 20TH SOLAR CYCLE: 1964-1975) DO NOT CONTAIN INFORMATION FOR E<10 AND E>200 MEV.

Table 32

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AE17 FOR SOLAR MAXIMUM *** UNIFLUX OF 1976 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 1.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 5: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1980.0 **
** VEHICLE = IRAS 1200 KM ** INCLINATION= 80DEG ** PERIGEE= 1200KM ** APOGEE= 1200KM ** B/L ORBIT TAPE: Y0403 ** PERIOD= 1.824 **

***** ALUMINUM DOSE FOR MISSION DURATION OF: 1.00 YEAR(S) *****

SHIELD THICKNESS (ALUMINUM) Z (GM/CM**2)	T (MM)	T (MILS)	ELECTRONS* INNER ZN. (RADS-AL)	ELECTRONS* OUTER ZN. (RADS-AL)	ELECTRONS* TOTAL (RADS-AL)	BREMSSTR-AHLUNG TOTAL (RADS-AL)	PROTONS TRAPPED** (RADS-AL)	PROTONS SOLAR* (RADS-AL)	PROTONS TOTAL (RADS-AL)	TOTAL DOSE ALL SOURCES (RADS-AL)
0.01	0.04	1	1.035E 06	9.547E 04	1.131E 06	0.0	1.786E 04	4.467E 02	1.831E 04	1.149E 06
0.02	0.07	3	5.665E 05	6.151E 04	6.281E 05	1.807E 01	6.767E 03	4.149E 02	7.182E 03	6.353E 05
0.03	0.11	4	3.856E 05	4.603E 04	4.016E 05	1.498E 01	6.692E 03	3.436E 02	6.986E 03	4.076E 05
0.04	0.15	6	2.374E 05	3.689E 04	2.743E 05	1.263E 01	4.409E 03	3.786E 02	4.787E 03	2.791E 05
0.05	0.19	7	1.645E 05	3.076E 04	1.953E 05	1.751E 01	3.664E 03	3.659E 02	4.030E 03	1.993E 05
0.06	0.22	9	1.169E 05	2.635E 04	1.432E 05	1.634E 01	3.220E 03	3.552E 02	3.576E 03	1.468E 05
0.07	0.26	10	8.470E 04	2.300E 04	1.077E 05	1.553E 01	2.909E 03	3.464E 02	3.255E 03	1.110E 05
0.08	0.30	12	6.246E 04	2.036E 04	8.282E 04	1.491E 01	2.649E 03	3.382E 02	2.987E 03	8.582E 04
0.09	0.33	13	4.682E 04	1.823E 04	6.505E 04	1.439E 01	2.445E 03	3.312E 02	2.776E 03	6.784E 04
0.10	0.37	15	3.566E 04	1.647E 04	5.213E 04	1.395E 01	2.263E 03	3.244E 02	2.588E 03	5.473E 04
0.20	0.74	29	5.304E 03	7.988E 03	1.330E 04	1.141E 01	1.403E 03	2.766E 02	1.679E 03	1.498E 04
0.30	1.11	44	1.887E 03	4.621E 03	6.509E 03	1.011E 01	1.068E 03	2.452E 02	1.314E 03	7.833E 03
0.40	1.48	58	9.377E 02	2.780E 03	3.718E 03	9.248E 00	8.800E 02	2.217E 02	1.102E 03	4.829E 03
0.50	1.85	73	5.423E 02	1.745E 03	2.288E 03	8.611E 00	7.580E 02	2.023E 02	9.604E 02	3.257E 03
0.60	2.22	87	3.356E 02	1.139E 03	1.474E 03	8.108E 00	6.770E 02	1.856E 02	8.626E 02	2.345E 03
0.80	2.96	117	1.369E 02	5.373E 02	6.743E 02	7.349E 00	5.716E 02	1.582E 02	7.298E 02	1.411E 03
1.00	3.70	146	5.316E 01	2.805E 02	3.337E 02	6.786E 00	5.033E 02	1.372E 02	6.404E 02	9.809E 02
1.25	4.63	182	1.314E 01	1.279E 02	1.410E 02	6.245E 00	4.506E 02	1.161E 02	5.667E 02	7.139E 02
1.50	5.56	219	3.474E 00	5.482E 01	5.730E 01	5.816E 00	4.167E 02	6.540E 01	5.161E 02	5.793E 02
1.75	6.48	255	3.768E-01	2.136E 01	2.174E 01	5.461E 00	3.934E 02	8.616E 01	4.796E 02	5.068E 02
2.00	7.41	292	4.551E-02	7.483E 00	7.532E 00	5.159E 00	3.755E 02	7.538E 01	4.509E 02	4.635E 02
2.50	9.26	365	7.643E-04	6.394E-01	6.402E-01	4.662E 00	3.440E 02	5.657E 01	4.005E 02	4.083E 02
3.00	11.11	437	1.750E-05	2.825E-02	2.826E-02	4.262E 00	3.142E 02	4.731E 01	3.615E 02	3.658E 02
3.50	12.96	510	4.738E-07	5.431E-04	5.436E-04	3.924E 00	2.897E 02	3.865E 01	3.284E 02	3.323E 02
4.00	14.81	583	1.401E-08	5.351E-06	5.365E-06	3.632E 00	2.708E 02	3.202E 01	3.028E 02	3.064E 02
5.00	18.52	729	1.405E-11	3.077E-10	3.217E-10	3.144E 00	2.428E 02	2.269E 01	2.655E 02	2.686E 02
6.00	22.22	876	1.392E-14	1.907E-14	3.299E-14	2.744E 00	2.182E 02	1.660E 01	2.348E 02	2.376E 02
8.00	29.63	1167	6.494E-21	3.902E-23	6.533E-21	2.120E 00	1.800E 02	9.514E 00	1.895E 02	1.916E 02
10.00	37.04	1458	1.412E-27	2.368E-32	1.412E-27	1.653E 00	1.520E 02	5.804E 00	1.578E 02	1.595E 02

* ELECTRON MODELS:

AE6: INNER ZONE-SOLAR MAX
NO UNCERTAINTY FACTOR WAS APPLIED TO THE MODEL DATA.

AE17: OUTER ZONE-INTERIM MODEL WITHOUT SOLAR CYCLE DEPENDENCE.
FOR ENERGIES ABOVE 1.5 MEV, THIS MODEL CONTAINS UPPER & LOWER LIMIT VALUES TO ACCOUNT FOR DISCREPANCY BETWEEN EXISTING DATA SETS. THE AE17-HI FAVORS VAMPOLA'S FIT TO GVI-19 DATA WHILE AE17-LO IS MORE REPRESENTATIVE OF ALL THE DATA SETS PRESENTLY AVAILABLE TO NSSDC.

>> THE AE17-LO VERSION WAS USED FOR THESE CALCULATIONS <<

** PROTON MODEL:

AP8-MAC: TRAPPED PROTONS-SOLAR MAX
NO UNCERTAINTY FACTOR WAS APPLIED TO THE MODEL DATA.

* SOLAR PROTON MODEL:

SOLPRC: SOLAR FLARE PROTONS AT 1 AU
(UNATTENUATED, INTERPLANETARY)
FOR CUTOFF DIPOLE SHELL OF 5 E.R.

FOR TAU=12.HC, .Q=50%: # OF AL EVENTS=1
70.79% GEOMAGNETIC SHIELDING APPLIED

NOTE: Q DENOTES THE DEGREE OF CONFIDENCE ONE WISHES TO ASSIGN TO RESULTS, NAMELY THAT FOR THE SPECIFIC MISSION DURATION THE CALCULATED FLUENCES ARE THE SMALLEST VALUES WHICH WILL NOT BE EXCEEDED BY ACTUALLY ENCOUNTERED INTENSITIES.

IT IS NOT ADVISABLE TO EXTRAPOLATE THE SOLAR PROTON SPECTRA NEITHER TOWARDS LOWER NOR TOWARDS HIGHER ENERGIES BECAUSE THE DATA SETS USED IN THE CONSTRUCTION OF THE MODEL (SATELLITE MEASUREMENTS MADE DURING THE 20TH SOLAR CYCLE: 1964-1975) DO NOT CONTAIN INFORMATION FOR E<10 AND E>200 MEV.

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Table 33

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AE17 FOR SOLAR MAXIMUM *** UNIFLUX OF 1978 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 2.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 5.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MODEL 5: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1980.0 **
** VEHICLE : IRAS 600 KM ** INCLINATION= 80DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** B/L ORBIT TAPE: TD5362 ** PERIOD= 1.611 **

***** ALUMINUM DOSE FOR MISSION DURATION OF: 1.00 YEAR(S) *****

SHIELD THICKNESS (ALUMINUM)			ELECTRONS*			BREMSSTR. AHLUNG	PROTONS			TOTAL DOSE
X (GM/CM**2)	T (MM)	T (MILS)	INNER ZN. (RADS-AL)	OUTER ZN. (RADS-AL)	TOTAL (RADS-AL)	TOTAL (RADS-AL)	TRAPPED** (RADS-AL)	SOLAR+ (RADS-AL)	TOTAL (RADS-AL)	ALL SOURCES (RADS-AL)
0.01	0.04	1	4.258E 06	8.022E 04	4.760E 06	0.0	2.272E 03	4.191E 02	2.691E 03	4.787E 05
0.02	0.07	3	2.124E 05	3.237E 04	2.447E 05	5.968E 00	7.977E 02	3.892E 02	1.187E 03	2.459E 05
0.03	0.11	4	1.258E 05	2.424E 04	1.500E 05	5.185E 00	6.383E 02	3.692E 02	1.008E 03	1.511E 05
0.04	0.15	6	8.076E 04	1.965E 04	1.002E 05	4.771E 00	4.892E 02	3.552E 02	8.444E 02	1.011E 05
0.05	0.19	7	5.449E 04	1.624E 04	7.072E 04	7.420E 00	3.975E 02	3.432E 02	7.408E 02	7.147E 04
0.06	0.22	9	3.806E 04	1.393E 04	5.198E 04	6.808E 00	3.437E 02	3.332E 02	6.769E 02	5.267E 04
0.07	0.26	10	2.725E 04	1.217E 04	3.946E 04	6.436E 00	3.069E 02	3.250E 02	6.319E 02	4.009E 04
0.08	0.30	12	1.958E 04	1.079E 04	3.076E 04	6.158E 00	2.771E 02	3.173E 02	5.943E 02	3.137E 04
0.09	0.33	13	1.490E 04	9.668E 03	2.457E 04	5.935E 00	2.541E 02	3.107E 02	5.648E 02	2.514E 04
0.10	0.37	15	1.130E 04	8.746E 03	2.005E 04	5.747E 00	2.342E 02	3.043E 02	5.386E 02	2.060E 04
0.20	0.74	29	1.603E 03	4.335E 03	5.937E 03	4.683E 00	1.483E 02	2.595E 02	4.079E 02	6.350E 03
0.30	1.11	44	5.546E 02	2.625E 03	3.179E 03	4.145E 00	1.176E 02	2.300E 02	3.476E 02	3.531E 03
0.40	1.48	58	2.766E 02	1.709E 03	1.986E 03	3.789E 00	1.008E 02	2.080E 02	3.087E 02	2.299E 03
0.50	1.85	73	1.615E 02	1.176E 03	1.337E 03	3.526E 00	9.001E 01	1.898E 02	2.798E 02	1.621E 03
0.60	2.22	87	1.007E 02	8.371E 02	9.378E 02	3.319E 00	8.304E 01	1.741E 02	2.571E 02	1.198E 03
0.80	2.96	117	4.116E 01	4.950E 02	4.962E 02	3.006E 00	7.388E 01	1.485E 02	2.223E 02	7.219E 02
1.00	3.70	146	1.577E 01	2.648E 02	2.806E 02	2.774E 00	6.759E 01	1.287E 02	1.963E 02	4.796E 02
1.25	4.63	182	3.784E 00	1.422E 02	1.459E 02	2.551E 00	6.235E 01	1.089E 02	1.712E 02	3.197E 02
1.50	5.56	219	6.963E-01	7.755E 01	7.824E 01	2.374E 00	5.871E 01	9.324E 01	1.519E 02	2.326E 02
1.75	6.48	255	1.077E-01	4.108E 01	4.119E 01	2.228E 00	5.600E 01	8.082E 01	1.368E 02	1.802E 02
2.00	7.41	292	1.537E-02	2.048E 01	2.050E 01	2.104E 00	5.388E 01	7.071E 01	1.246E 02	1.472E 02
2.50	9.26	365	3.214E-04	4.048E 00	4.048E 00	1.900E 00	5.003E 01	5.532E 01	1.053E 02	1.113E 02
3.00	11.11	437	7.882E-06	5.726E-01	5.726E-01	1.735E 00	4.611E 01	4.438E 01	9.048E 01	9.279E 01
3.50	12.96	510	2.187E-07	6.092E-02	6.092E-02	1.596E 00	4.273E 01	3.626E 01	7.899E 01	8.064E 01
4.00	14.81	583	6.617E-09	5.717E-03	5.717E-03	1.476E 00	4.007E 01	3.004E 01	7.011E 01	7.159E 01
5.00	18.52	729	6.939E-12	4.855E-05	4.855E-05	1.275E 00	3.604E 01	2.128E 01	5.732E 01	5.859E 01
6.00	22.22	875	7.172E-15	3.691E-07	3.691E-07	1.111E 00	3.261E 01	1.558E 01	4.819E 01	4.930E 01
8.00	29.63	1167	3.644E-21	1.183E-11	1.183E-11	8.562E-01	2.685E 01	8.926E 00	3.578E 01	3.661E 01
10.00	37.04	1458	8.682E-28	2.140E-16	2.140E-16	6.663E-01	2.267E 01	5.445E 00	2.811E 01	2.878E 01

* ELECTRON MODELS:

AE6: INNER ZONE-SOLAR MAX
TO PROVIDE WORST CASE ESTIMATES, UNCERTAINTY FACTOR OF X 5.0 (AVERAGE FOR AE6 MODELS) WAS APPLIED TO THE MODEL DATA.

AE17: OUTER ZONE-INTERIM MODEL WITHOUT SOLAR CYCLE DEPENDENCE. FOR ENERGIES ABOVE 1.5 MEV. THIS MODEL CONTAINS UPPER & LOWER LIMIT VALUES TO ACCOUNT FOR DISCREPANCY BETWEEN EXISTING DATA SETS. THE AE17-HI FAVORS VAMPOLA'S FIT TO OV1-19 DATA WHILE AE17-LC IS MORE REPRESENTATIVE OF ALL THE DATA SETS PRESENTLY AVAILABLE TO NSSDC.

>> THE AE17-HI VERSION WAS USED FOR THESE CALCULATIONS <<

** PROTON MODEL:

AP8-MAC: TRAPPED PROTONS-SOLAR MAX
TO PROVIDE WORST CASE ESTIMATES, UNCERTAINTY FACTOR OF X 2.0 WAS APPLIED TO THE MODEL DATA.

+ SOLAR PROTON MODEL:

SOLPRO: SOLAR FLARE PROTONS AT 1 AU (UNATTENUATED, INTERPLANETARY) FOR CUTOFF DIPOLE SHELL OF 5 E.R.

FOR TAU= 12.MO.,Q=90%: # OF AL EVENTS=1
72.60% GEOMAGNETIC SHIELDING APPLIED

NOTE: Q DENOTES THE DEGREE OF CONFIDENCE ONE WISHES TO ASSIGN TO RESULTS. NAMELY THAT FOR THE SPECIFIC MISSION DURATION THE CALCULATED FLUENCES ARE THE SMALLEST VALUES WHICH WILL NOT BE EXCEEDED BY ACTUALLY ENCOUNTERED INTENSITIES.

IT IS NOT ADVISABLE TO EXTRAPOLATE THE SOLAR PROTON SPECTRA NEITHER TOWARDS LOWER NOR TOWARDS HIGHER ENERGIES BECAUSE THE DATA SETS USED IN THE CONSTRUCTION OF THE MODEL (SATELLITE MEASUREMENTS MADE DURING THE 20TH SOLAR CYCLE: 1964-1975) DO NOT CONTAIN INFORMATION FOR E<10 AND E>200 MEV.

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VEITES AP8; AE6, AEI7 FOR SOLAR MAXIMUM *** UNIFLUX OF 1976 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 2.0; FOR INNER ZONE ELECTRONS (AE6) - UF= 5.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MODEL 2: BARRACLOUGH ET. AL. I68-TERM 1975 * TIME= 1980.0 **
** VEHICLE : IRAS 900 KM ** INCLINATION= 99DEG ** PERIGEE= 900KM ** APOGEE= 900KM ** D/L ORBIT TAPE: T05376 ** PERIOD= 1.716 **

***** ALUMINUM DOSE FOR MISSION DURATION OF: 1.00 YEAR(S) *****

SHIELD THICKNESS (ALUMINUM) Z (GM/CM**2)	T (MM)	T (MILS)	ELECTRONS* INNER ZN. (RADS-AL)	ELECTRONS* OUTER ZN. (RADS-AL)	ELECTRONS* TOTAL (RADS-AL)	BREMSSTRAHLUNG TOTAL (RADS-AL)	PROTONS TRAPPED** (RADS-AL)	PROTONS SOLAR+ (RADS-AL)	PROTONS TOTAL (RADS-AL)	TOTAL DOSE ALL SOURCES (RADS-AL)
0.01	0.04	1	1.701E 06	7.019E 04	1.771E 06	0.0	1.176E 04	4.400E 02	1.220E 04	1.783E 06
0.02	0.07	3	8.983E 05	4.535E 04	9.437E 05	2.701E 01	4.377E 03	4.087E 02	4.786E 03	9.485E 05
0.03	0.11	4	5.513E 05	3.400E 04	5.853E 05	2.293E 01	3.510E 03	3.877E 02	3.906E 03	5.897E 05
0.04	0.15	6	3.631E 05	2.728E 04	3.904E 05	2.097E 01	2.728E 03	3.730E 02	3.101E 03	3.935E 05
0.05	0.19	7	2.492E 05	2.277E 04	2.720E 05	2.382E 01	2.235E 03	3.604E 02	2.595E 03	2.746E 05
0.06	0.22	9	1.760E 05	1.952E 04	1.955E 05	2.228E 01	1.941E 03	3.499E 02	2.291E 03	1.978E 05
0.07	0.26	10	1.271E 05	1.704E 04	1.441E 05	2.123E 01	1.740E 03	3.413E 02	2.082E 03	1.462E 05
0.08	0.30	12	9.360E 04	1.509E 04	1.086E 05	2.040E 01	1.577E 03	3.331E 02	1.910E 03	1.105E 05
0.09	0.33	13	7.000E 04	1.352E 04	8.352E 04	1.972E 01	1.449E 03	3.263E 02	1.776E 03	8.531E 04
0.10	0.37	15	5.328E 04	1.222E 04	6.550E 04	1.913E 01	1.338E 03	3.196E 02	1.658E 03	6.717E 04
0.20	0.74	29	7.883E 03	6.029E 03	1.391E 04	1.570E 01	8.344E 02	2.725E 02	1.107E 03	1.504E 04
0.30	1.11	44	2.800E 03	3.651E 03	6.451E 03	1.392E 01	6.468E 02	2.419E 02	8.883E 02	7.353E 03
0.40	1.48	58	1.397E 03	2.383E 03	3.780E 03	1.274E 01	5.427E 02	2.184E 02	7.611E 02	4.554E 03
0.50	1.85	73	8.117E 02	1.644E 03	2.455E 03	1.186E 01	4.755E 02	1.993E 02	6.748E 02	3.142E 03
0.60	2.22	87	5.038E 02	1.174E 03	1.677E 03	1.117E 01	4.313E 02	1.828E 02	6.141E 02	2.303E 03
0.80	2.96	117	2.057E 02	6.406E 02	8.463E 02	1.012E 01	3.733E 02	1.559E 02	5.292E 02	1.380E 03
1.00	3.70	146	7.942E 01	3.738E 02	4.532E 02	9.347E 00	3.346E 02	1.351E 02	4.697E 02	9.323E 02
1.25	4.63	182	1.935E 01	2.013E 02	2.207E 02	8.599E 00	3.037E 02	1.143E 02	4.180E 02	6.473E 02
1.50	5.56	219	3.593E 00	1.102E 02	1.138E 02	8.006E 00	2.831E 02	9.791E 01	3.810E 02	5.028E 02
1.75	6.48	255	5.556E-01	5.853E 01	5.909E 01	7.515E 00	2.684E 02	8.487E 01	3.533E 02	4.199E 02
2.00	7.41	292	8.210E-02	2.920E 01	2.928E 01	7.097E 00	2.571E 02	7.425E 01	3.313E 02	3.677E 02
2.50	9.26	365	2.222E-03	5.750E 00	5.753E 00	6.408E 00	2.388E 02	5.809E 01	2.969E 02	3.070E 02
3.00	11.11	437	7.445E-05	8.092E-01	8.093E-01	5.851E 00	2.171E 02	4.660E 01	2.637E 02	2.703E 02
3.50	12.96	510	2.784E-06	8.569E-02	8.569E-02	5.382E 00	2.006E 02	3.807E 01	2.387E 02	2.442E 02
4.00	14.81	583	1.128E-07	8.014E-03	8.014E-03	4.975E 00	1.878E 02	3.154E 01	2.194E 02	2.243E 02
5.00	18.52	729	2.060E-10	6.765E-05	6.766E-05	4.294E 00	1.687E 02	2.235E 01	1.910E 02	1.953E 02
6.00	22.22	875	3.610E-13	5.115E-07	5.115E-07	3.737E 00	1.526E 02	1.635E 01	1.689E 02	1.727E 02
8.00	29.63	1167	5.379E-19	1.621E-11	1.621E-11	2.867E 00	1.256E 02	9.372E 00	1.350E 02	1.378E 02
10.00	37.04	1458	4.021E-25	2.898E-16	2.898E-16	2.220E 00	1.063E 02	5.717E 00	1.120E 02	1.142E 02

* ELECTRON MODELS:

AE6: INNER ZONE-SOLAR MAX
TO PROVIDE WORST CASE ESTIMATES, UNCERTAINTY FACTOR OF X 5.0 (AVERAGE FOR AE6 MODEL) WAS APPLIED TO THE MODEL DATA.

AEI7: OUTER ZONE-INTERIM MODEL WITHOUT SOLAR CYCLE DEPENDENCE. FOR ENERGIES ABOVE 1.5 MEV, THIS MODEL CONTAINS UPPER & LOWER LIMIT VALUES TO ACCOUNT FOR DISCREPANCY BETWEEN EXISTING DATA SETS. THE AEI7-HI FAVORS VAMPOLA'S FIT TO OVI-19 DATA WHILE AEI7-LO IS MORE REPRESENTATIVE OF ALL THE DATA SETS PRESENTLY AVAILABLE TO NSSDC.

>> THE AEI7-HI VERSION WAS USED FOR THESE CALCULATIONS <<

** PROTON MODEL:

AP8-MAC: TRAPPED PROTONS-SOLAR MAX
TO PROVIDE WORST CASE ESTIMATES, UNCERTAINTY FACTOR OF X 2.0 WAS APPLIED TO THE MODEL DATA.

+ SOLAR PROTON MODEL:

SOLPRO: SOLAR FLARE PROTONS AT 1 AU
(UNATTENUATED, INTERPLANETARY)
FOR CUTOFF DIPOLE SHELL OF 5 E.R.

FOR TAU=12.MO.,0=90%: # OF AL EVENTS=1
71.23% GEOMAGNETIC SHIELDING APPLIED

NOTE: 0 DENOTES THE DEGREE OF CONFIDENCE ONE WISHES TO ASSIGN TO RESULTS, NAMELY THAT FOR THE SPECIFIC MISSION DURATION THE CALCULATED FLUENCES ARE THE SMALLEST VALUES WHICH WILL NOT BE EXCEEDED BY ACTUALLY ENCOUNTERED INTENSITIES.

IT IS NOT ADVISABLE TO EXTRAPOLATE THE SOLAR PROTON SPECTRA NEITHER TOWARDS LOWER NOR TOWARDS HIGHER ENERGIES BECAUSE THE DATA SETS USED IN THE CONSTRUCTION OF THE MODEL (SATELLITE MEASUREMENTS MADE DURING THE 20TH SOLAR CYCLE: 1964-1975) DO NOT CONTAIN INFORMATION FOR E<10 AND E>200 MEV.

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Table 35

** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE6, AEI7 FOR SOLAR MAXIMUM *** UNIFLUX OF 1979 **
** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) = UF= 2.0; FOR INNER ZONE ELECTRONS (AE6) = UF= 5.0 **
** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG. MODEL 5: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1980.0 **
** VEHICLE : IRAS 1200 KM ** INCLINATION= 80DEG ** PERIGEE= 1200KM ** APOGEE= 1200KM ** B/L ORBIT TAPE: TD840> ** PERIOD= 1.824 **

***** ALUMINUM DOSE FOR MISSION DURATION OF: 1.00 YEAR(S) *****

SHIELD THICKNESS (ALUMINUM) Z (GM/CM**2)	T (MM)	T (MILS)	ELECTRONS* INNER ZN. (RADS-AL)	ELECTRONS* OUTER ZN. (RADS-AL)	ELECTRONS* TOTAL (RADS-AL)	BREMSSTR-AHLUNG TOTAL (RADS-AL)	PROTONS TRAPPED** (RADS-AL)	PROTONS SOLAR+ (RADS-AL)	PROTONS TOTAL (RADS-AL)	TOTAL DOSE ALL SOURCES (RADS-AL)
0.01	0.04	1	5.177E 06	5.844E 04	5.272E 06	0.0	3.673E 04	4.467E 02	3.617E 04	5.308E 06
0.02	0.07	3	2.833E 06	6.148E 04	2.894E 06	9.033E 01	1.353E 04	4.149E 02	1.395E 04	2.908E 06
0.03	0.11	4	1.778E 06	4.601E 04	1.824E 06	7.490E 01	1.118E 04	3.936E 02	1.158E 04	1.836E 06
0.04	0.15	6	1.187E 06	3.607E 04	1.224E 06	6.816E 01	8.817E 03	3.786E 02	9.196E 03	1.233E 06
0.05	0.19	7	8.227E 05	3.075E 04	8.534E 05	6.931E 01	7.328E 03	3.659E 02	7.694E 03	8.612E 05
0.06	0.22	9	5.844E 05	2.635E 04	6.108E 05	6.537E 01	6.441E 03	3.552E 02	6.796E 03	6.176E 05
0.07	0.26	10	4.235E 05	2.301E 04	4.465E 05	6.247E 01	5.817E 03	3.464E 02	6.163E 03	4.828E 05
0.08	0.30	12	3.123E 05	2.038E 04	3.327E 05	6.013E 01	5.298E 03	3.382E 02	5.636E 03	3.384E 05
0.09	0.33	13	2.341E 05	1.826E 04	2.523E 05	5.817E 01	4.889E 03	3.312E 02	5.220E 03	2.574E 05
0.10	0.37	15	1.783E 05	1.650E 04	1.948E 05	5.648E 01	4.527E 03	3.244E 02	4.851E 03	1.997E 05
0.20	0.74	29	2.652E 04	8.147E 03	3.467E 04	4.645E 01	2.605E 03	2.766E 02	3.082E 03	3.779E 04
0.30	1.11	44	9.437E 03	4.922E 03	1.436E 04	4.122E 01	2.137E 03	2.452E 02	2.382E 03	1.678E 04
0.40	1.48	58	4.689E 03	3.202E 03	7.890E 03	3.772E 01	1.760E 03	2.217E 02	1.982E 03	9.910E 03
0.50	1.85	73	2.711E 03	2.201E 03	4.912E 03	3.514E 01	1.516E 03	2.023E 02	1.718E 03	6.666E 03
0.60	2.22	87	1.678E 03	1.566E 03	3.244E 03	3.309E 01	1.354E 03	1.856E 02	1.540E 03	4.817E 03
0.80	2.96	117	6.847E 02	8.515E 02	1.536E 03	3.001E 01	1.143E 03	1.682E 02	1.301E 03	2.868E 03
1.00	3.70	146	2.650E 02	4.567E 02	7.616E 02	2.771E 01	1.007E 03	1.572E 02	1.144E 03	1.921E 03
1.25	4.63	182	6.570E 01	2.663E 02	3.320E 02	2.550E 01	9.012E 02	1.161E 02	1.017E 03	1.375E 03
1.50	5.56	219	1.237E 01	1.452E 02	1.576E 02	2.375E 01	8.335E 02	9.940E 01	9.329E 02	1.114E 03
1.75	6.48	255	1.884E 00	7.688E 01	7.876E 01	2.230E 01	7.868E 02	8.618E 01	8.730E 02	9.740E 02
2.00	7.41	292	2.476E-01	3.828E 01	3.853E 01	2.107E 01	7.510E 02	7.538E 01	8.263E 02	8.859E 02
2.50	9.26	365	3.821E-03	7.549E 00	7.553E 00	1.903E 01	6.881E 02	5.897E 01	7.471E 02	7.737E 02
3.00	11.11	437	8.745E-05	1.068E 00	1.068E 00	1.738E 01	6.285E 02	4.731E 01	6.758E 02	6.942E 02
3.50	12.96	510	2.369E-06	1.142E-01	1.142E-01	1.599E 01	5.794E 02	3.865E 01	6.181E 02	6.342E 02
4.00	14.81	583	7.004E-08	1.680E-02	1.680E-02	1.479E 01	5.416E 02	3.203E 01	5.736E 02	5.884E 02
5.00	18.52	729	7.026E-11	9.348E-05	9.348E-05	1.277E 01	4.856E 02	2.269E 01	5.082E 02	5.210E 02
6.00	22.22	875	6.961E-14	7.238E-07	7.238E-07	1.112E 01	4.385E 02	1.660E 01	4.551E 02	4.662E 02
8.00	29.63	1167	3.247E-20	2.412E-11	2.412E-11	8.537E 00	3.600E 02	9.514E 00	3.695E 02	3.780E 02
10.00	37.04	1458	7.060E-27	4.539E-16	4.539E-16	6.610E 00	3.040E 02	5.804E 00	3.098E 02	3.164E 02

* ELECTRON MODELS:

AE6: INNER ZONE-SOLAR MAX
TO PROVIDE WORST CASE ESTIMATES, UNCERTAINTY FACTOR OF X 5.0 (AVERAGE FOR AE6 MODEL) WAS APPLIED TO THE MODEL DATA.

AEI7: OUTER ZONE-INTERIM MODEL WITHOUT SOLAR CYCLE DEPENDENCE. FOR ENERGIES ABOVE 1.5 MEV. THIS MODEL CONTAINS UPPER & LOWER LIMIT VALUES TO ACCOUNT FOR DISCREPANCY BETWEEN EXISTING DATA SETS. THE AEI7-HI FAVORS VAMPOLA'S FIT TO OV1-19 DATA WHILE AEI7-LC IS MORE REPRESENTATIVE OF ALL THE DATA SETS PRESENTLY AVAILABLE TO NSSDC.

>> THE AEI7-HI VERSION WAS USED FOR THESE CALCULATIONS <<

** PROTON MODEL:

AP8-MAC: TRAPPED PROTONS-SOLAR MAX
TO PROVIDE WORST CASE ESTIMATES, UNCERTAINTY FACTOR OF X 2.0 WAS APPLIED TO THE MODEL DATA.

+ SOLAR PROTON MODEL:

SOLPRO: SOLAR FLARE PROTONS AT 1 AU (UNATTENUATED, INTERPLANETARY)
FOR CUTOFF DIPOLE SHELL OF 5 E.R.

FOR IAU=12,NO.=0=90%; 8 OF ALL EVENTS=1
70.79% GEOMAGNETIC SHIELDING APPLIED

NOTE: 0 DENOTES THE DEGREE OF CONFIDENCE ONE WISHES TO ASSIGN TO RESULTS, NAMELY THAT FOR THE SPECIFIC MISSION DURATION THE CALCULATED FLUENCES ARE THE SMALLEST VALUES WHICH WILL NOT BE EXCEEDED BY ACTUALLY ENCOUNTERED INTENSITIES.

IT IS NOT ADVISABLE TO EXTRAPOLATE THE SOLAR PROTON SPECTRA NEITHER TOWARDS LOWER NOR TOWARDS HIGHER ENERGIES BECAUSE THE DATA SETS USED IN THE CONSTRUCTION OF THE MODEL (SATELLITE MEASUREMENTS MADE DURING THE 20TH SOLAR CYCLE: 1964-1975) DO NOT CONTAIN INFORMATION FOR E<10 AND E>200 MEV.

Table 36

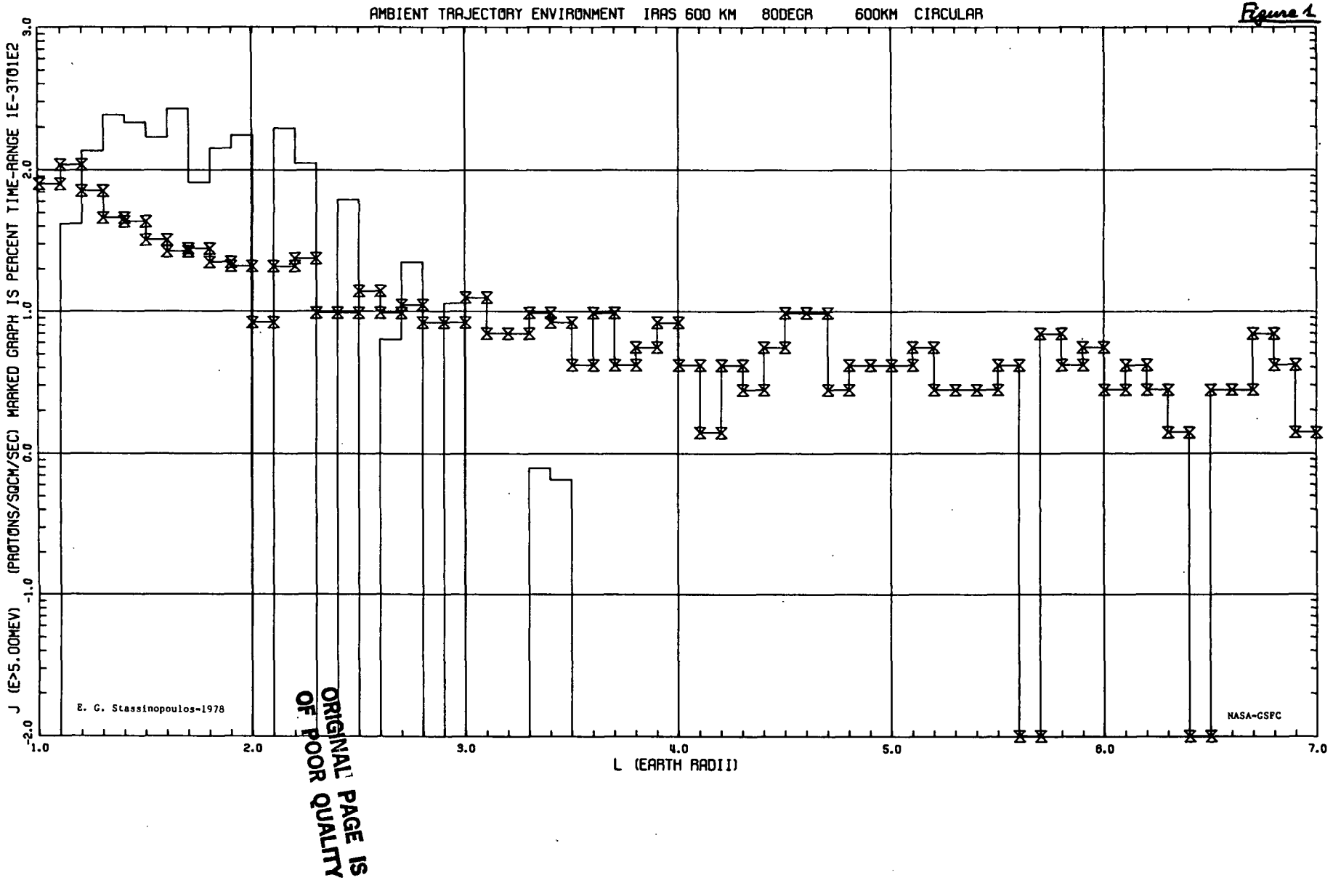


Figure 1

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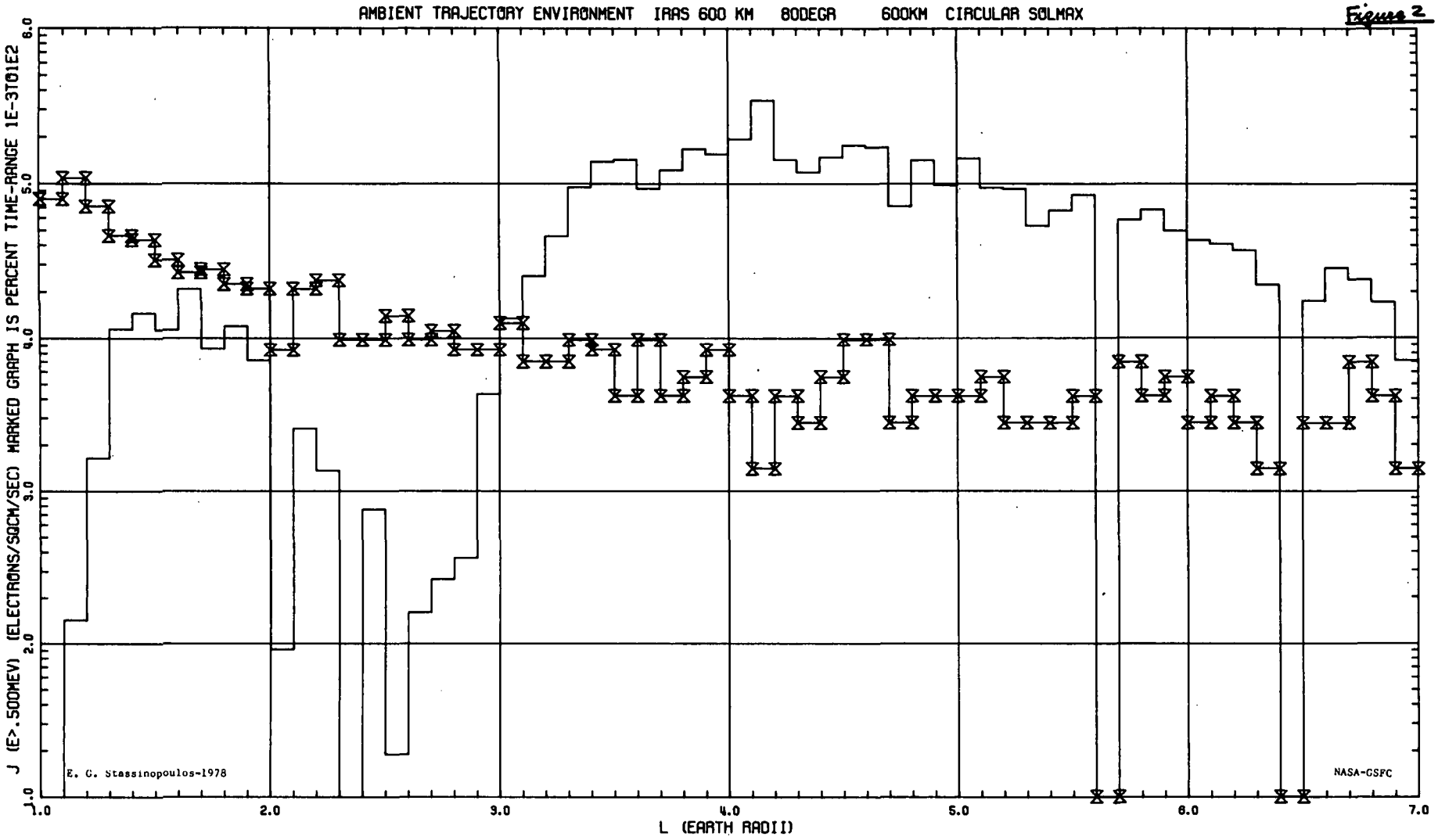

AMBIENT TRAJECTORY ENVIRONMENT IRAS 600 KM 80DEGR 600KM CIRCULAR SOLMAX
J (E>.500MEV) (ELECTRONS/SQCM/SEC) MARKED GRAPH IS PERCENT TIME-RANGE 1E-3T01E2
L (EARTH RADII)
1.0
2.0
3.0
4.0
5.0
6.0
7.0
E. G. Stassinopoulos-1978
NASA-GSFC

Figure 2

Figure 3

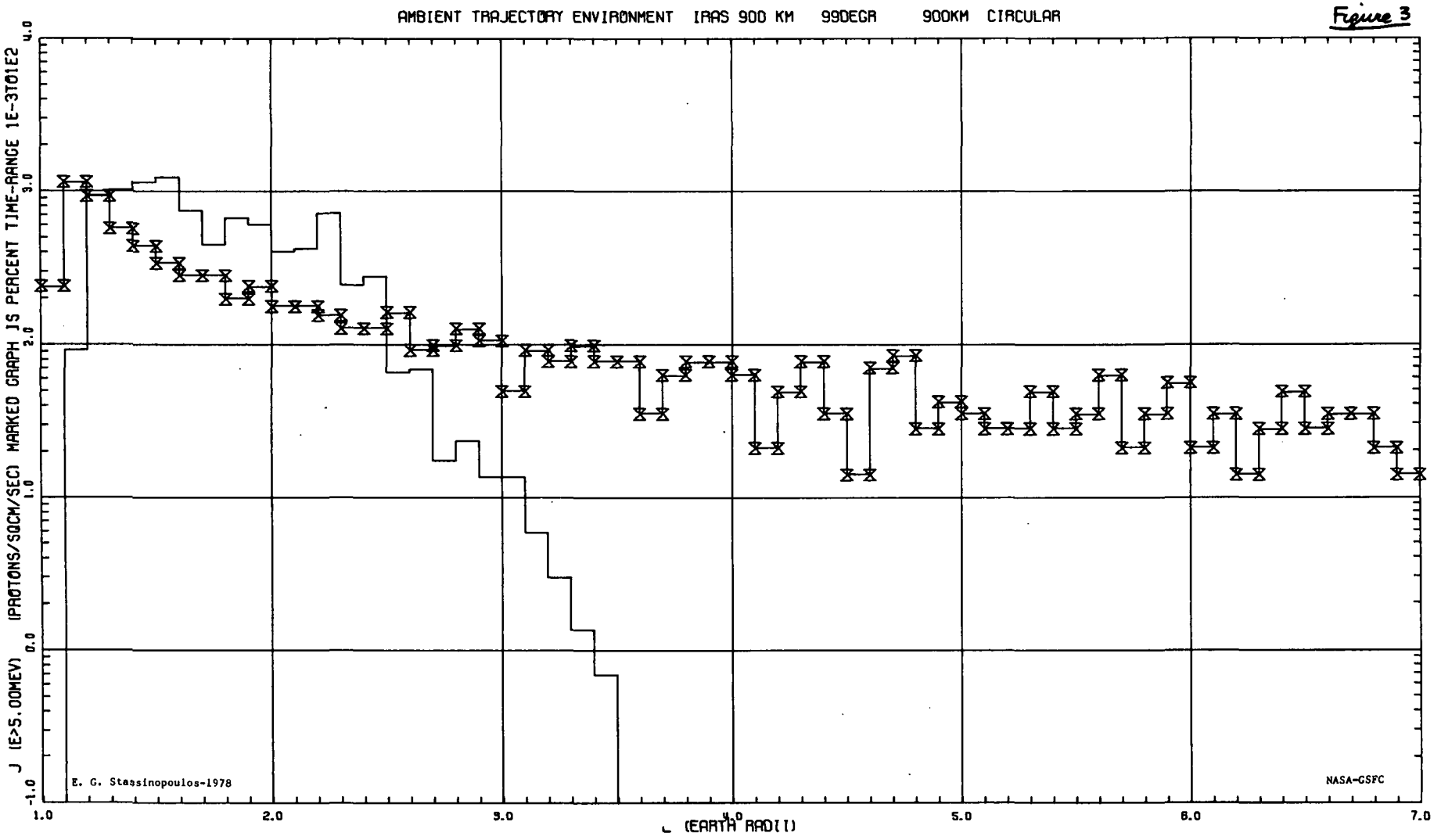
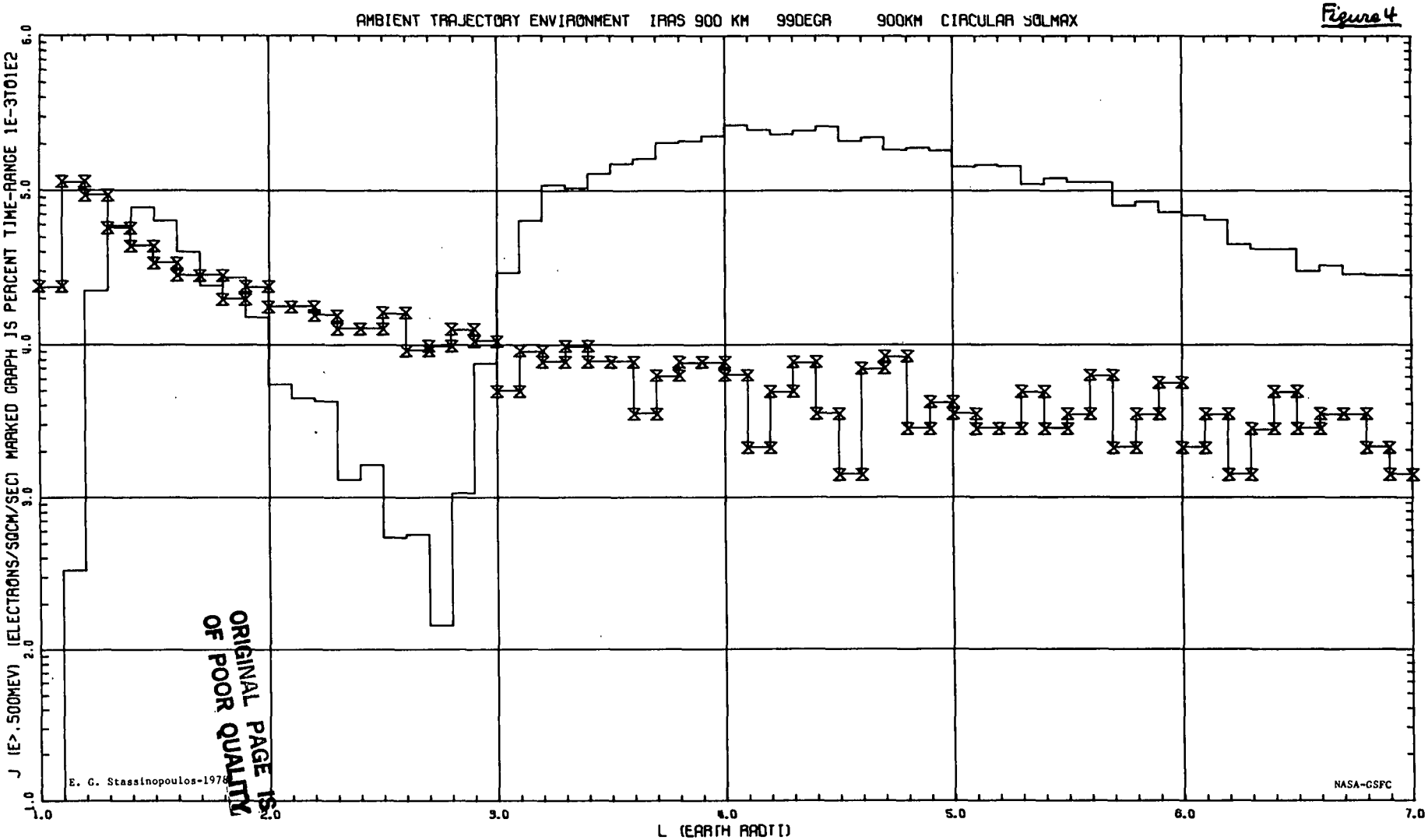

AMBIENT TRAJECTORY ENVIRONMENT IRAS 900 KM 99DEGR 900KM CIRCULAR
J (E>5.00MEV) (PROTONS/SQCM/SEC) MARKED GRAPH IS PERCENT TIME-RANGE 1E-3TO1E2
4.0
3.0
2.0
1.0
0.0
-1.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
L (EARTH RADII)
E. G. Stassinopoulos-1978
NASA-GSFC

Figure 4



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Figure 5

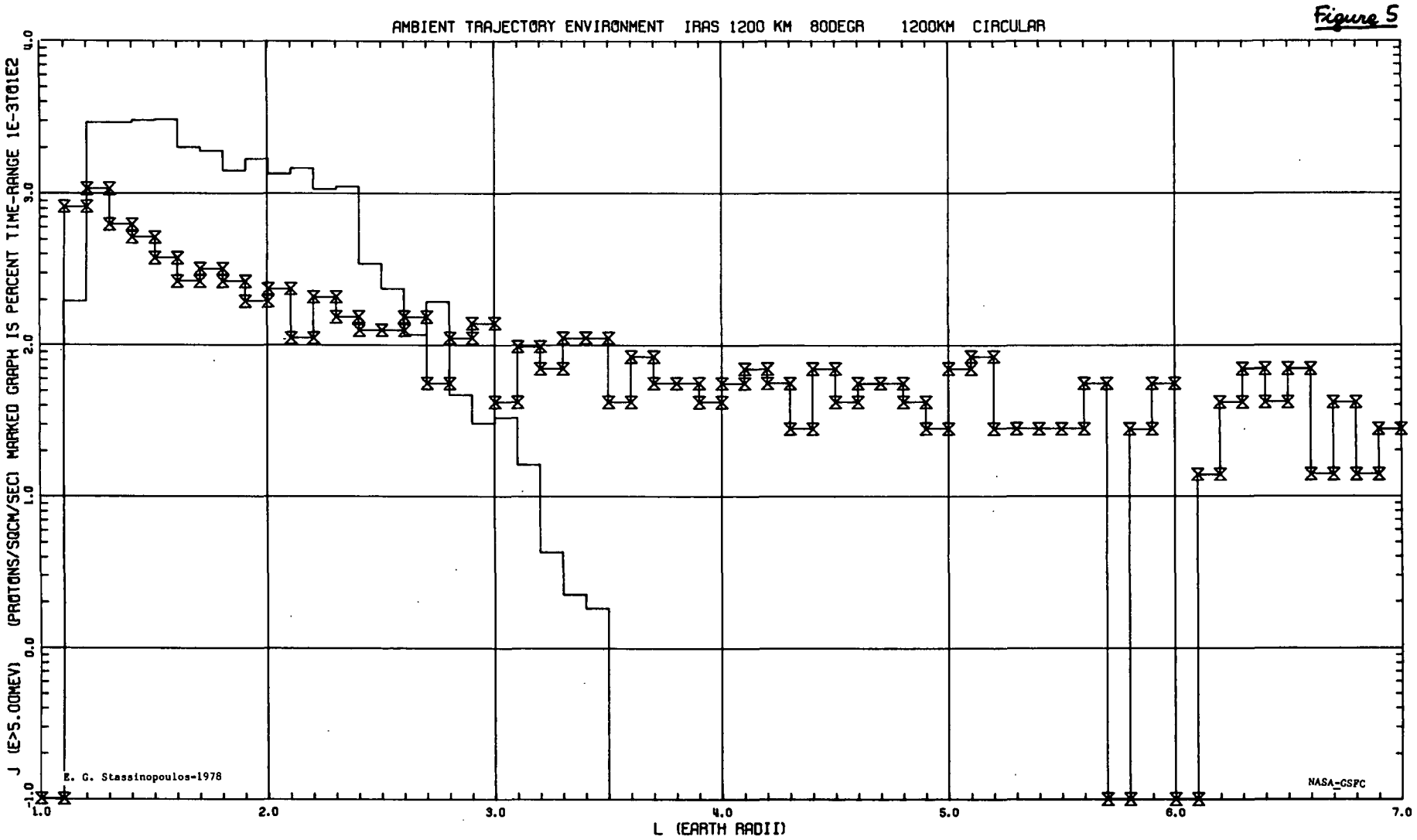
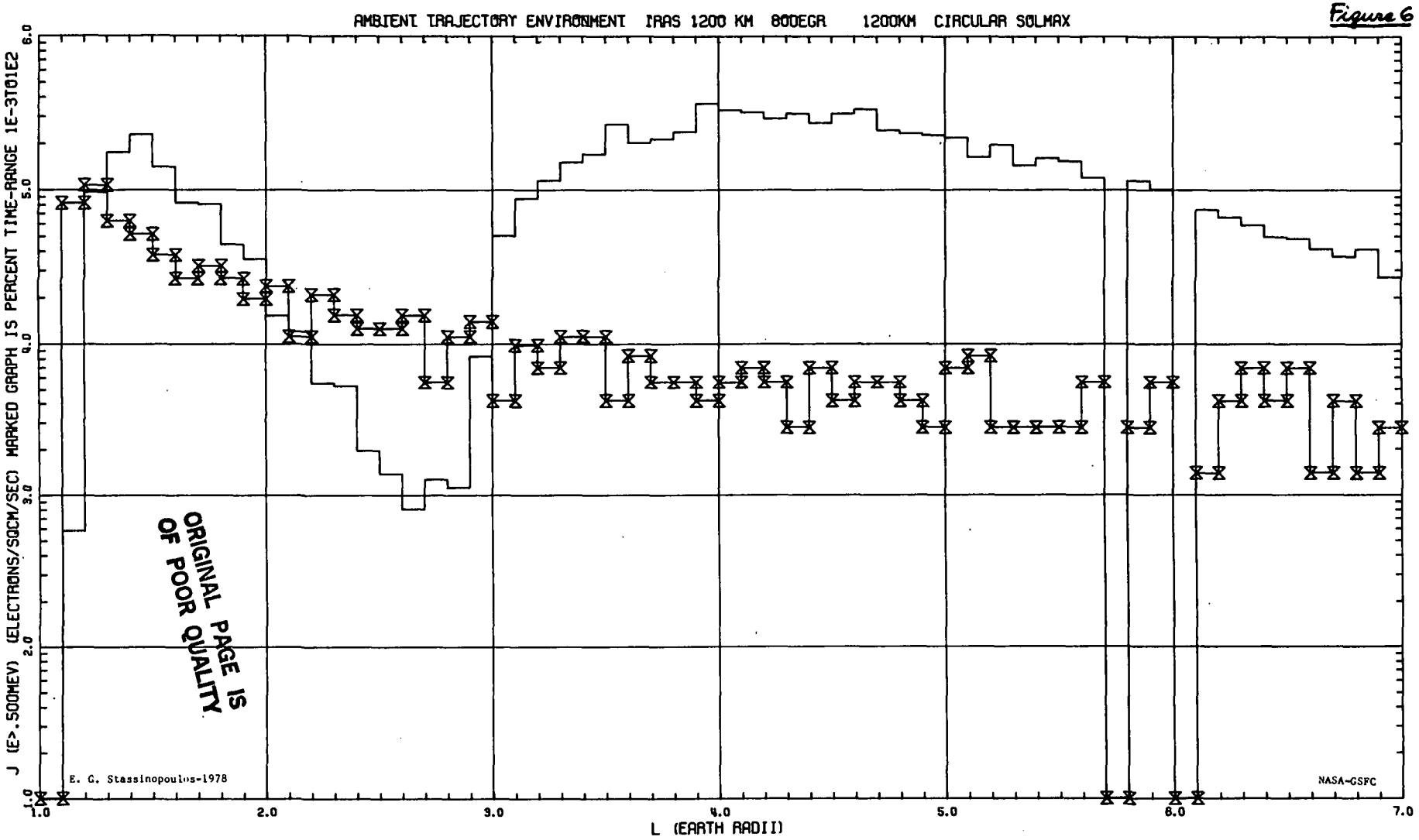

AMBIENT TRAJECTORY ENVIRONMENT IRAS 1200 KM 80DEGR 1200KM CIRCULAR
J (E>5.00MEV) (PROTONS/SQCM/SEC) MARKED GRAPH IS PERCENT TIME-RANGE 1E-3T01E2
4.0
3.0
2.0
1.0
0.0
-1.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
L (EARTH RADII)
E. G. Stassinopoulos-1978
NASA-GSFC

Figure 6


AMBIENT TRAJECTORY ENVIRONMENT IRAS 1200 KM 80DEGR 1200KM CIRCULAR SOLMAX
J (E>.500MEV) (ELECTRONS/SQCM/SEC) MARKED GRAPH IS PERCENT TIME-RANGE 1E-3T01E2
6.0
5.0
4.0
3.0
2.0
1.0
0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
L (EARTH RADII)
ORIGINAL PAGE IS
OF POOR QUALITY
E. G. Stassinopoulos-1978
NASA-GSFC

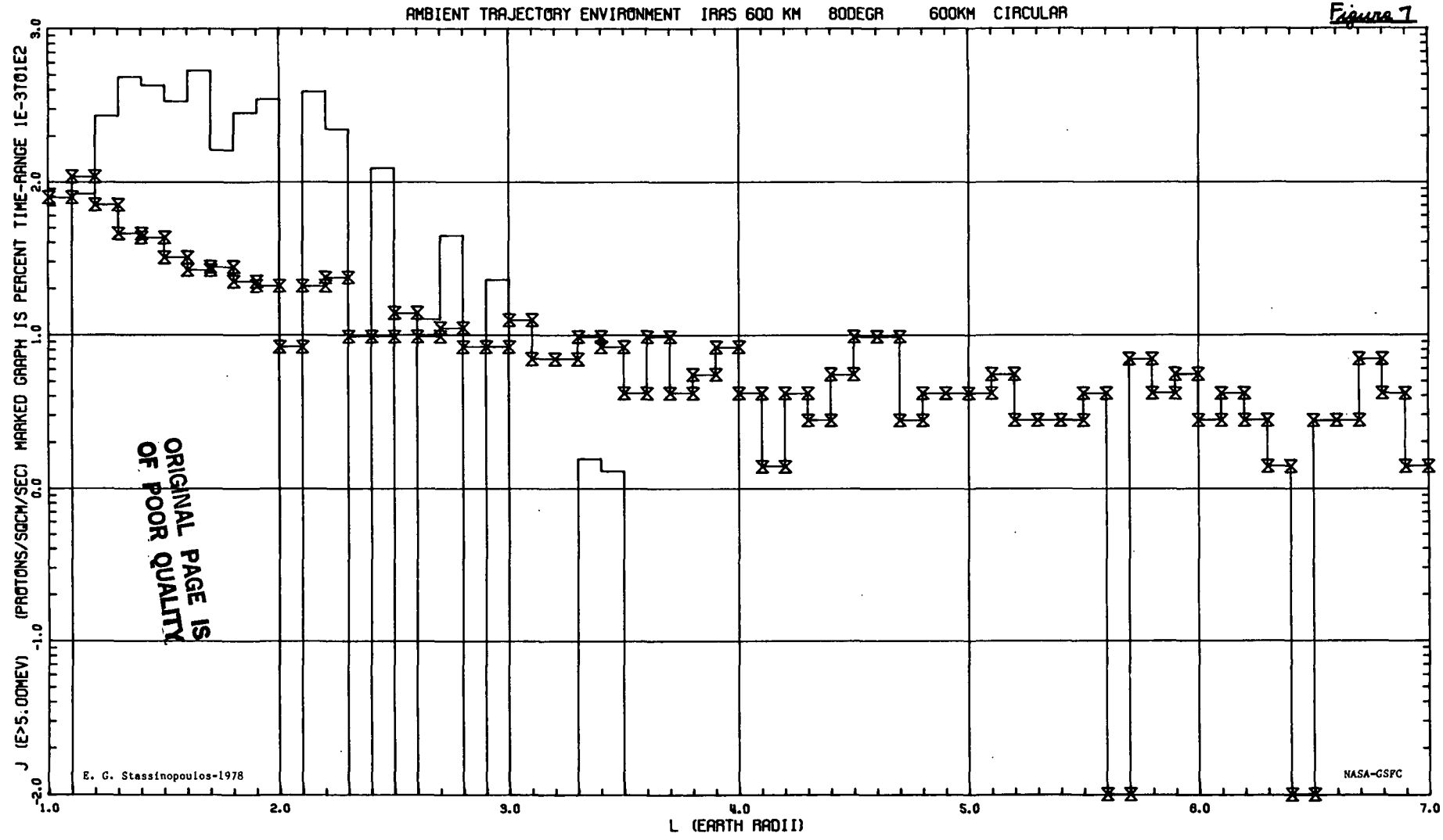

AMBIENT TRAJECTORY ENVIRONMENT IRAS 600 KM 80DEGR 600KM CIRCULAR
J (E>5.00MEV) (PROTONS/SQCM/SEC) MARKED GRAPH IS PERCENT TIME-RANGE 1E-3T01E2
3.0
2.0
1.0
0.0
-1.0
-2.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
L (EARTH RADII)
E. G. Stassinopoulos-1978
NASA-GSFC
ORIGINAL PAGE IS OF POOR QUALITY

Figure 7

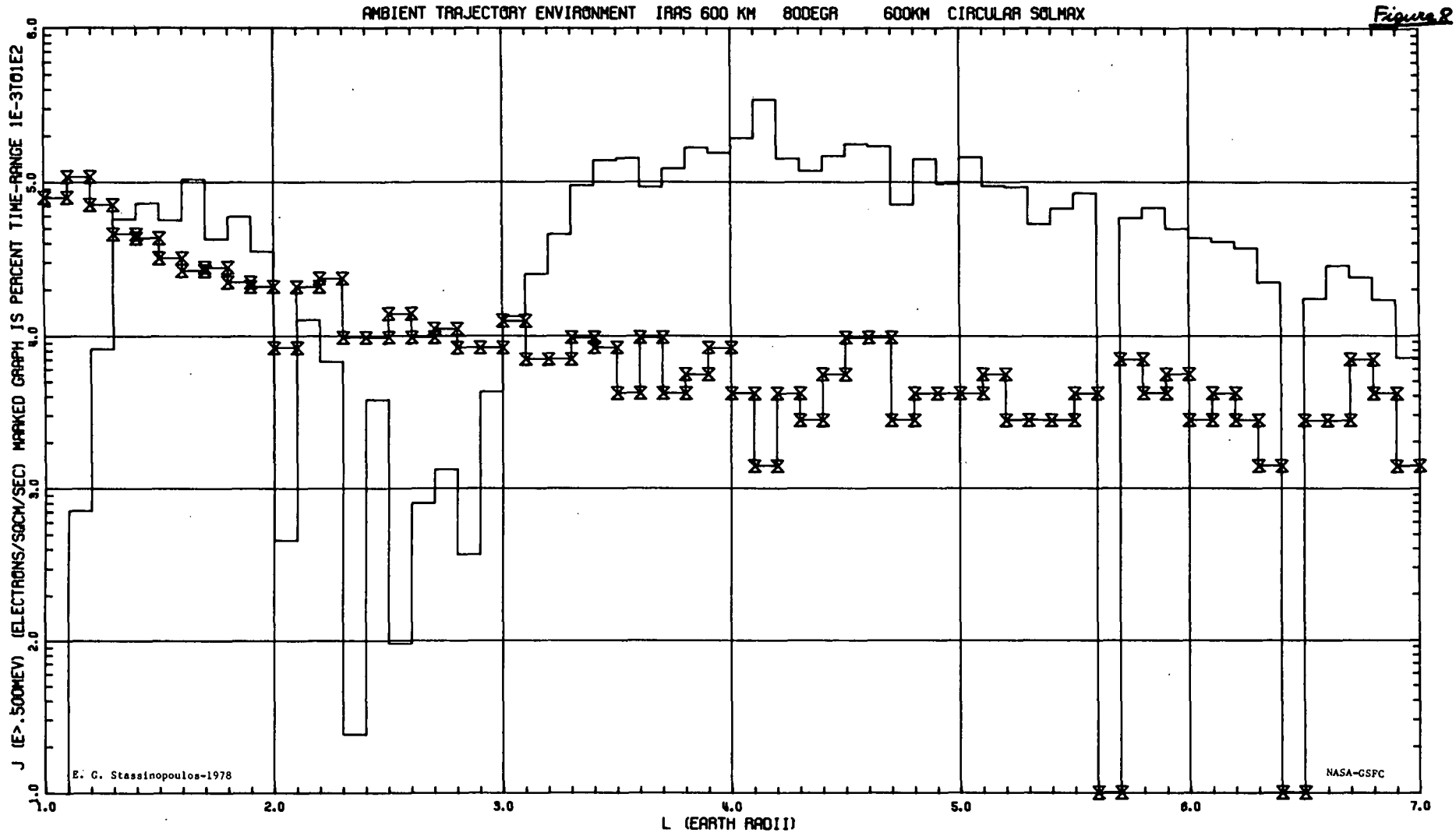

AMBIENT TRAJECTORY ENVIRONMENT IRAS 600 KM 80DEGR 600KM CIRCULAR SOLMAX
J (E>.500MEV) (ELECTRONS/SQCM/SEC) MARKED GRAPH IS PERCENT TIME-RANGE 1E-3TO1E2
L (EARTH RADII)
1.0
2.0
3.0
4.0
5.0
6.0
7.0
E. G. Stassinopoulos-1978
NASA-GSFC

Figure 8

Figure 9

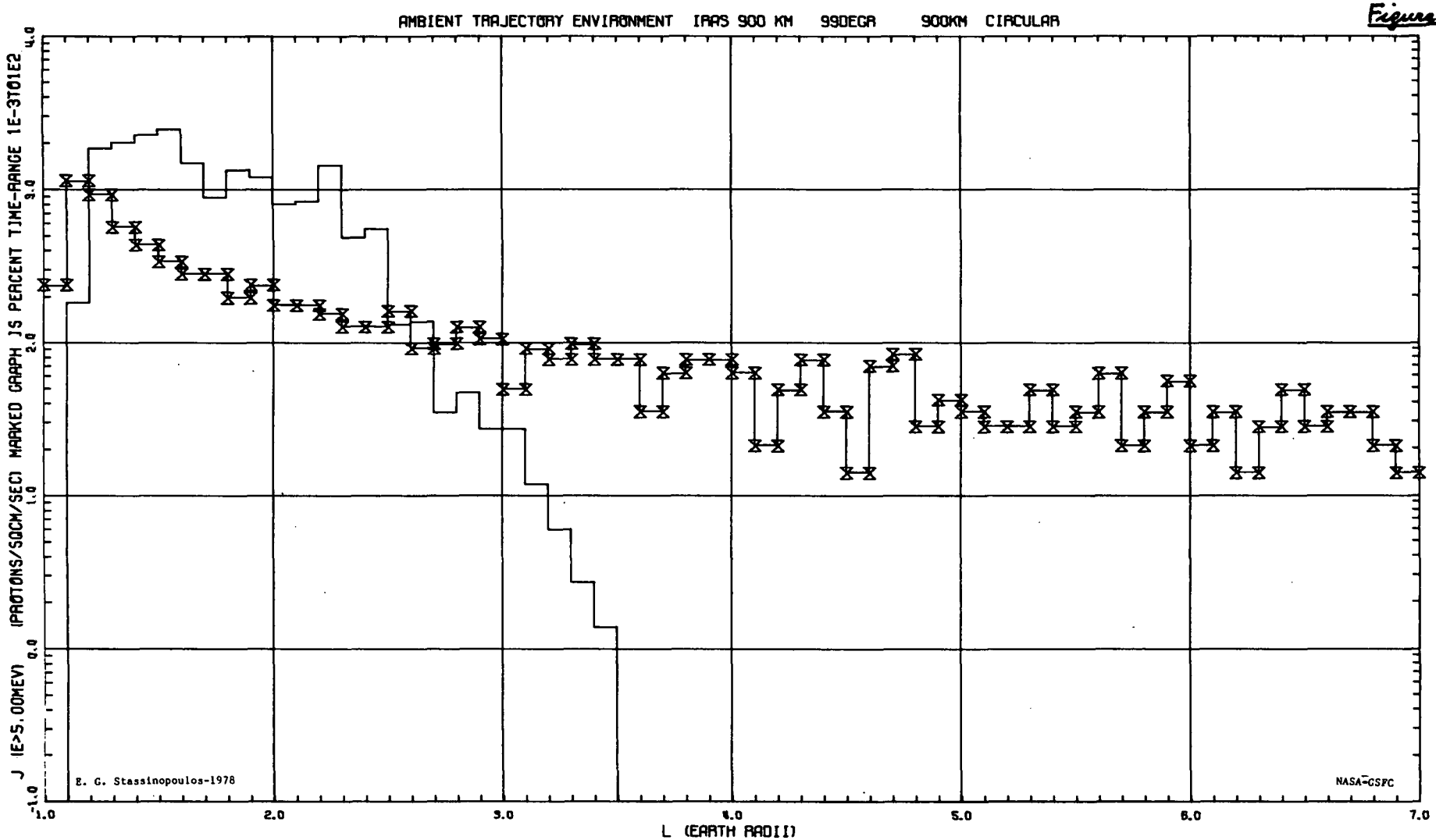
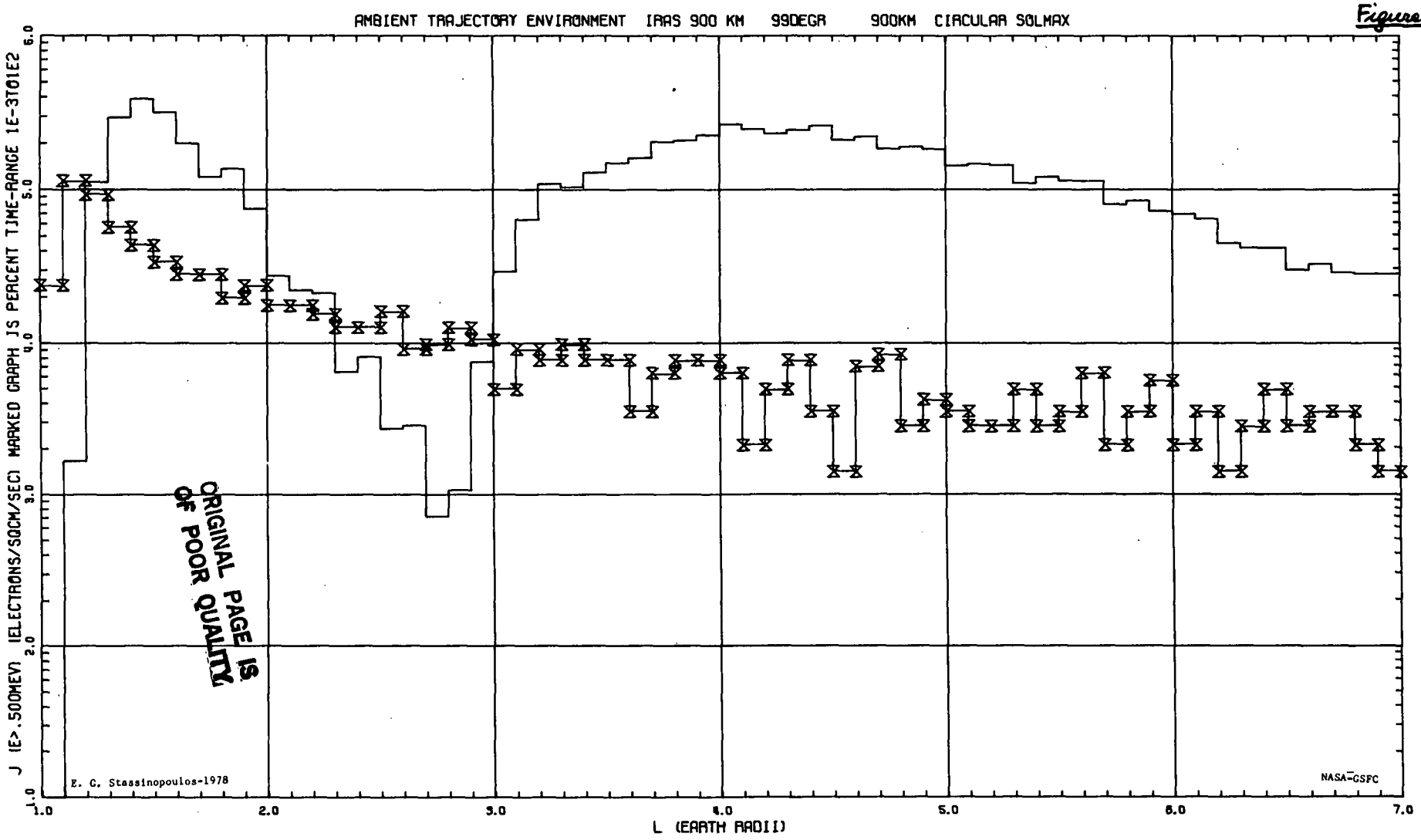

AMBIENT TRAJECTORY ENVIRONMENT IRAS 900 KM 99DEGR 900KM CIRCULAR
J (E>5.00MEV) (PROTONS/SQCM/SEC) MARKED GRAPH IS PERCENT TIME-RANGE 1E-3T01E2
L (EARTH RADII)
E. G. Stassinopoulos-1978
NASA-GSFC

Figure 10



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Figure 11

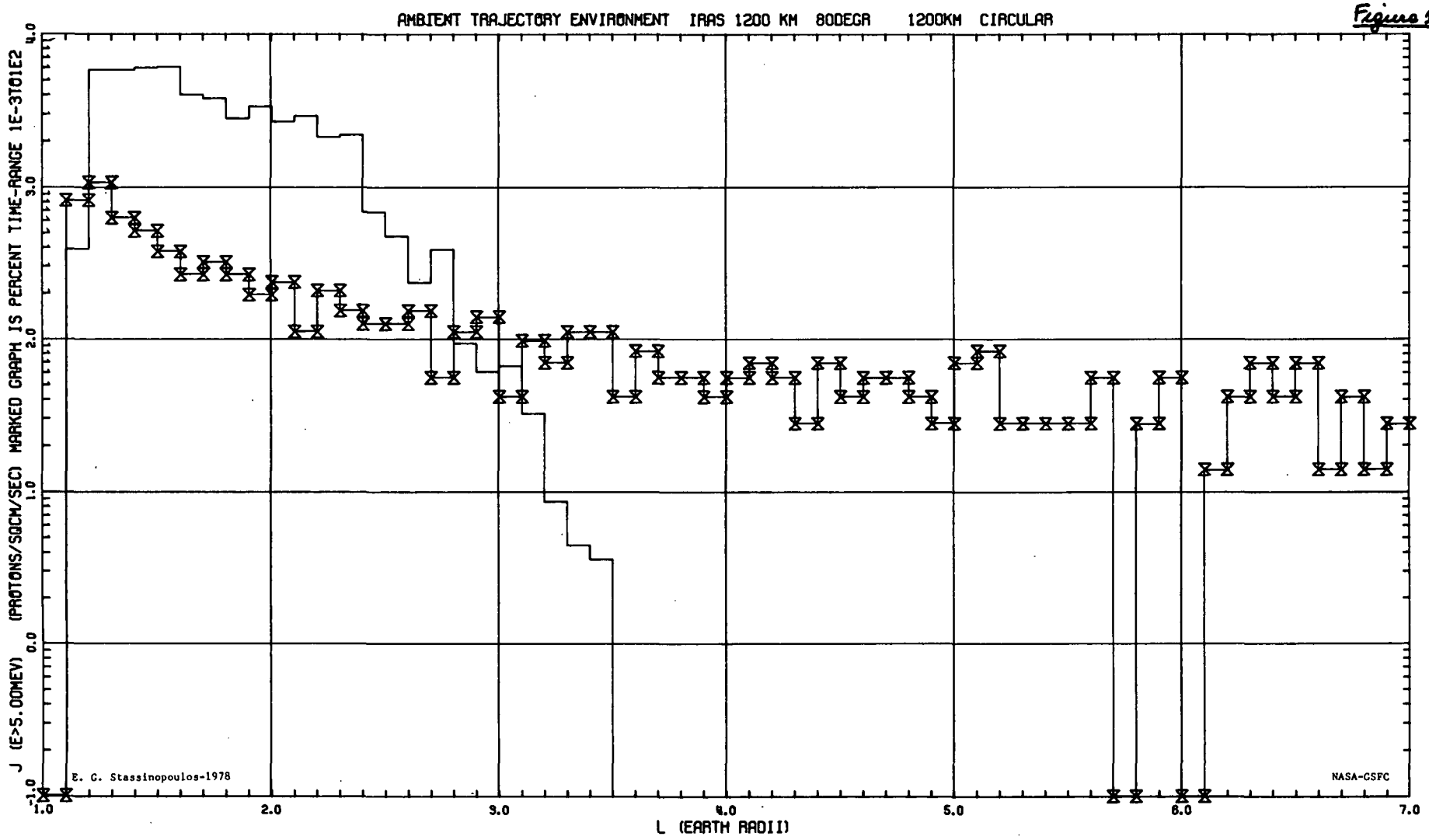

AMBIENT TRAJECTORY ENVIRONMENT IRAS 1200 KM 80DEGR 1200KM CIRCULAR
J (E>5.00MEV) (PROTONS/SQCM/SEC) MARKED GRAPH IS PERCENT TIME-RANGE 1E-3T01E2
4.0
3.0
2.0
1.0
0.0
-1.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
L (EARTH RADII)
E. G. Stassinopoulos-1978
NASA-GSFC

Figure 12

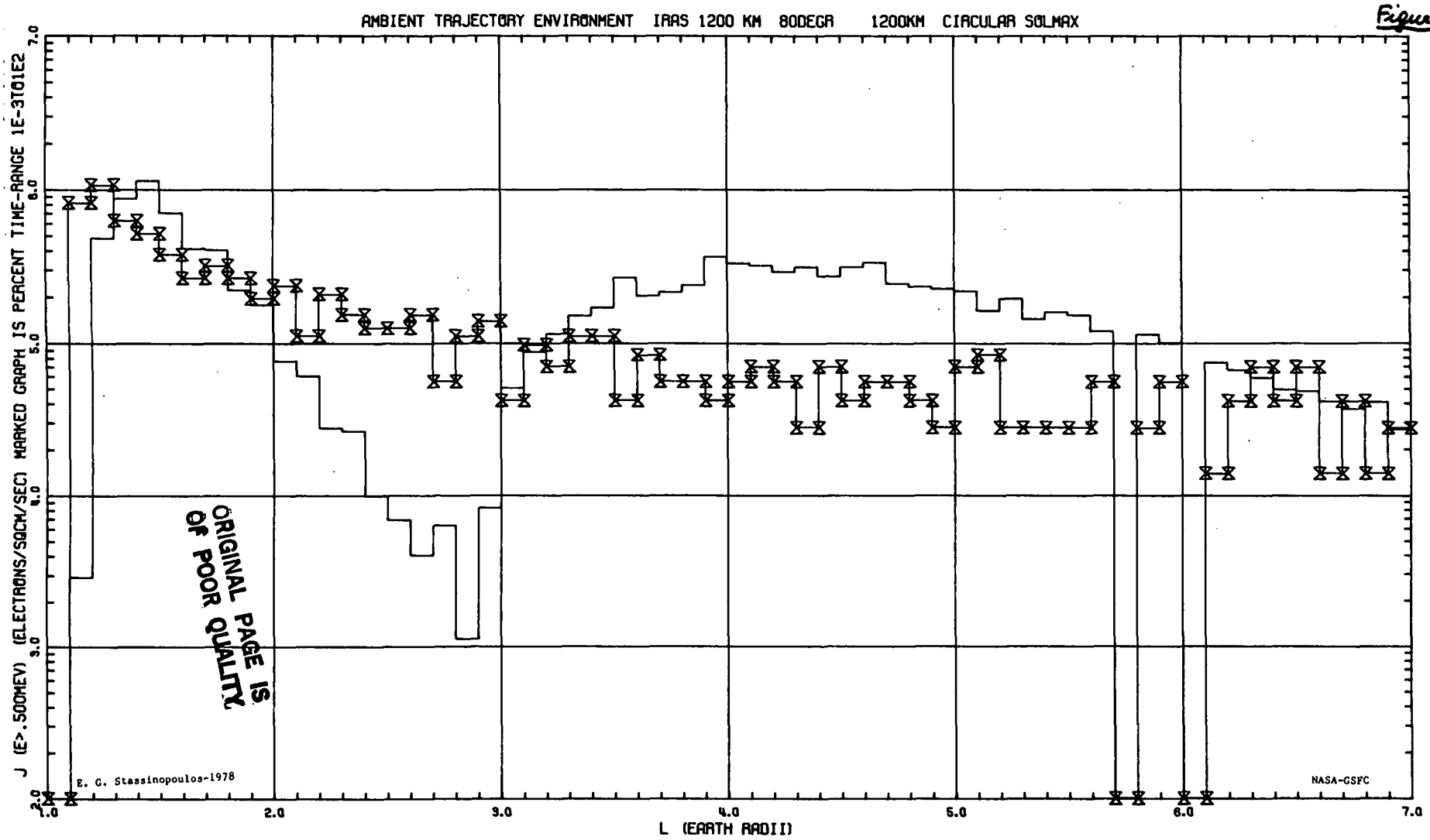

AMBIENT TRAJECTORY ENVIRONMENT IRAS 1200 KM 80DEGR 1200KM CIRCULAR SOLMAX
J (E>.500MEV) (ELECTRONS/SQCM/SEC) MARKED GRAPH IS PERCENT TIME-RANGE 1E-3TO1E2
7.0
6.0
5.0
4.0
3.0
2.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
L (EARTH RADII)
E. G. Stassinopoulos-1978
NASA-GSFC
ORIGINAL PAGE IS OF POOR QUALITY

Figure 13

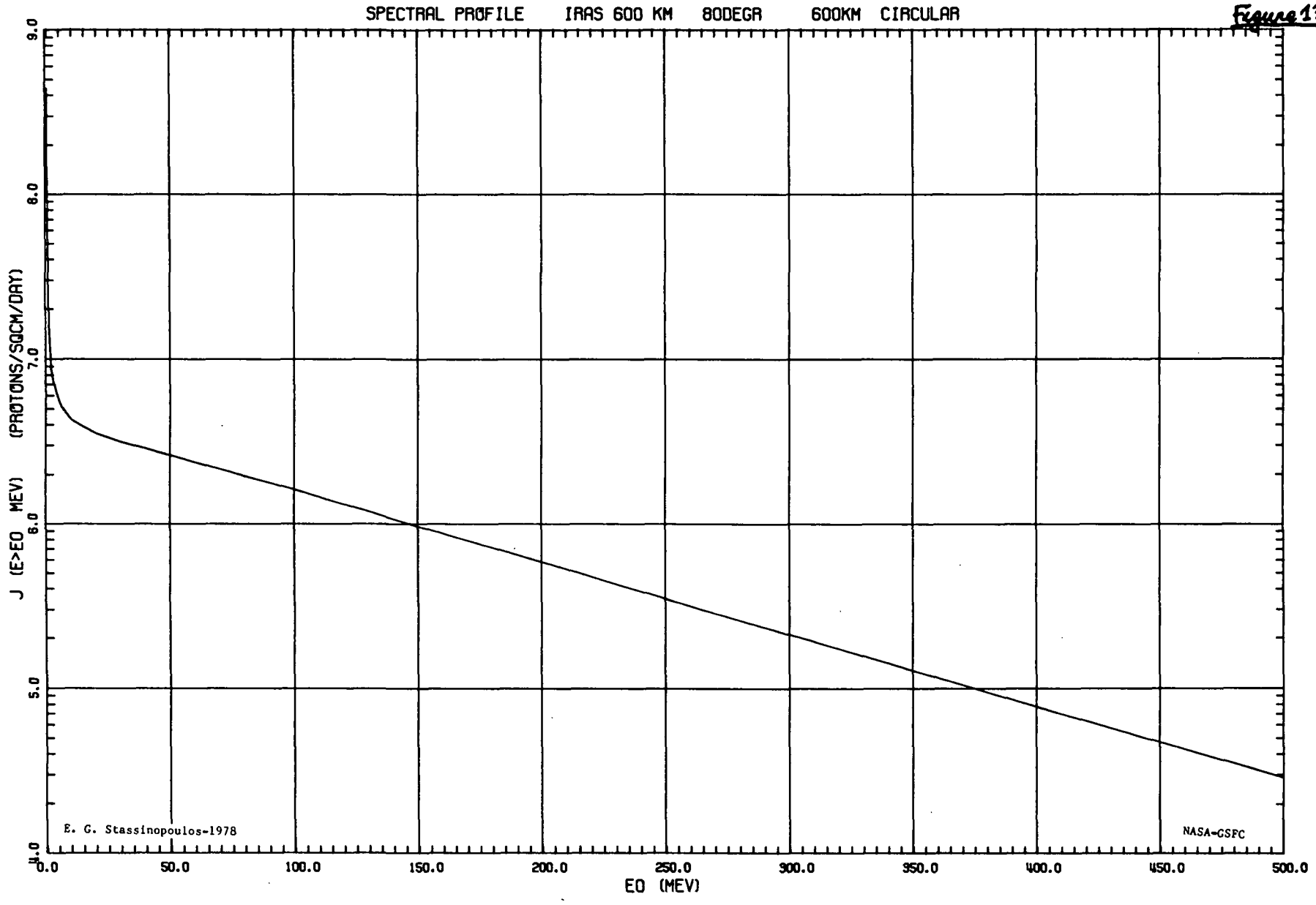

SPECTRAL PROFILE IRAS 600 KM 80DEGR 600KM CIRCULAR
J (E>EO MEV) (PROTONS/SQCM/DAY)
9.0
8.0
7.0
6.0
5.0
4.0
0.0
50.0
100.0
150.0
200.0
250.0
300.0
350.0
400.0
450.0
500.0
EO (MEV)
E. G. Stassinopoulos-1978
NASA-GSFC

Figure 14

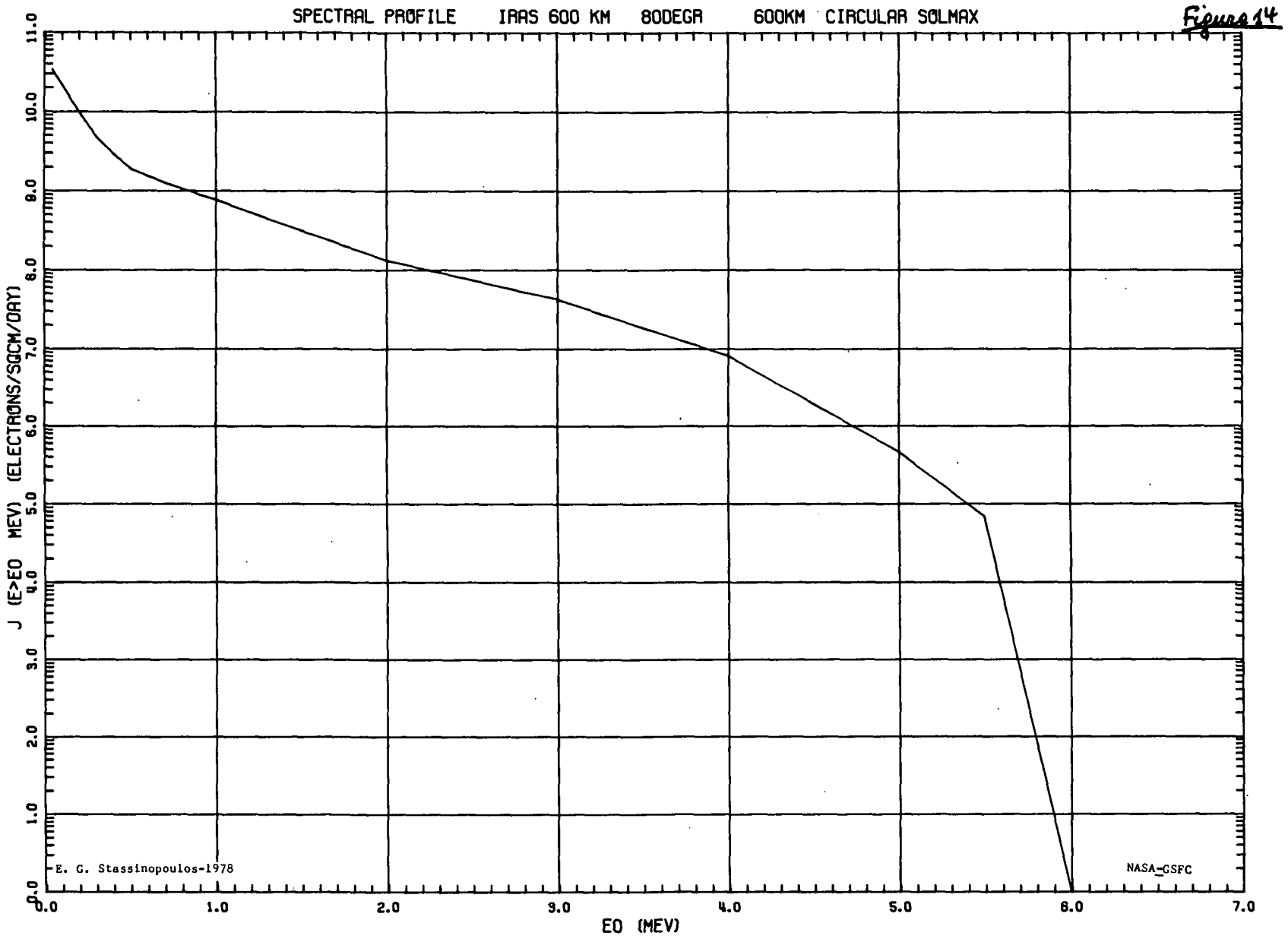

SPECTRAL PROFILE IRAS 600 KM 80DEGR 600KM CIRCULAR SOLMAX
J (E>E0 MEV) (ELECTRONS/SQCM/DAY)
E0 (MEV)
0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
9.0
10.0
11.0
E. G. Stassinopoulos-1978
NASA-GSFC

Figure 15

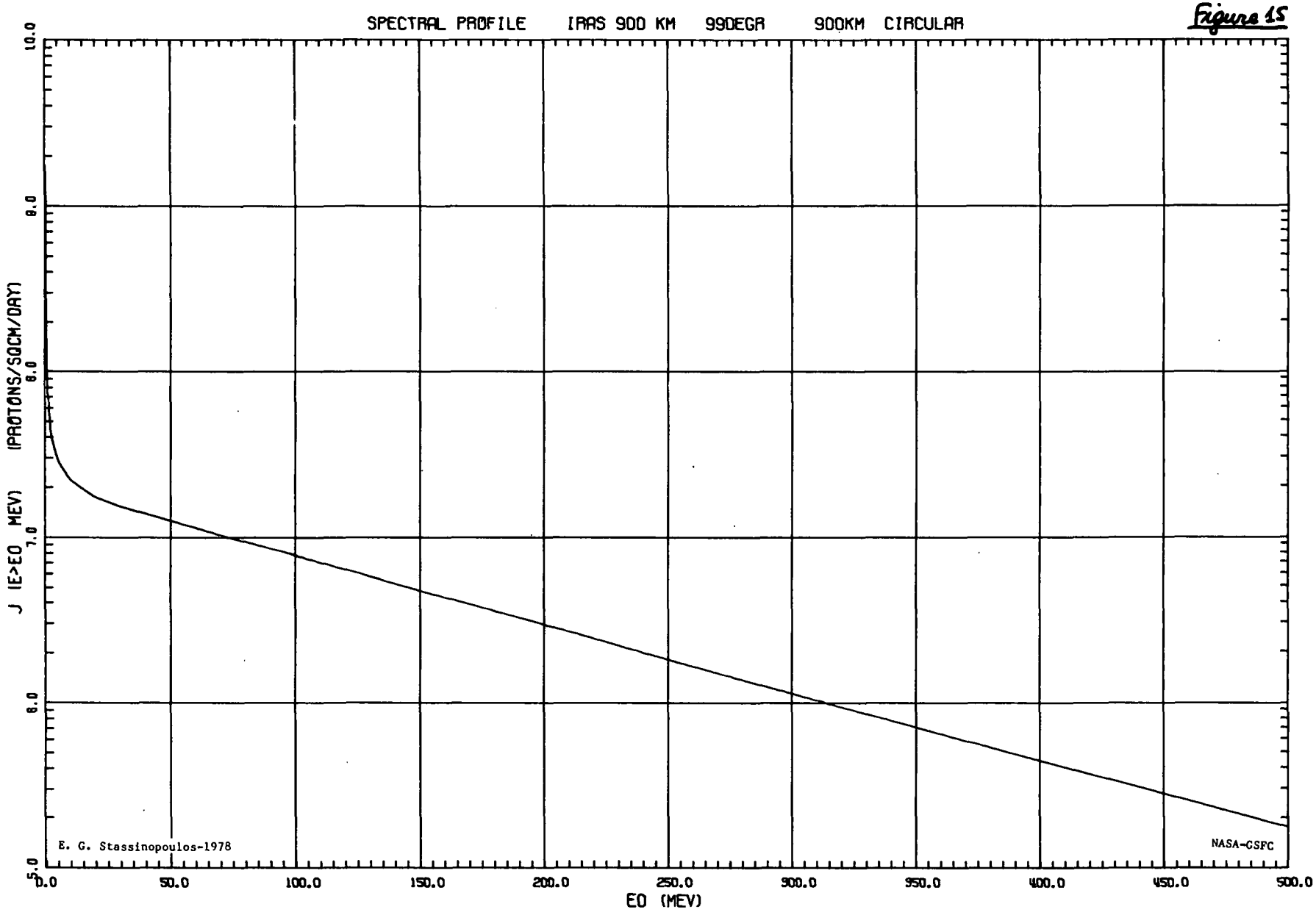
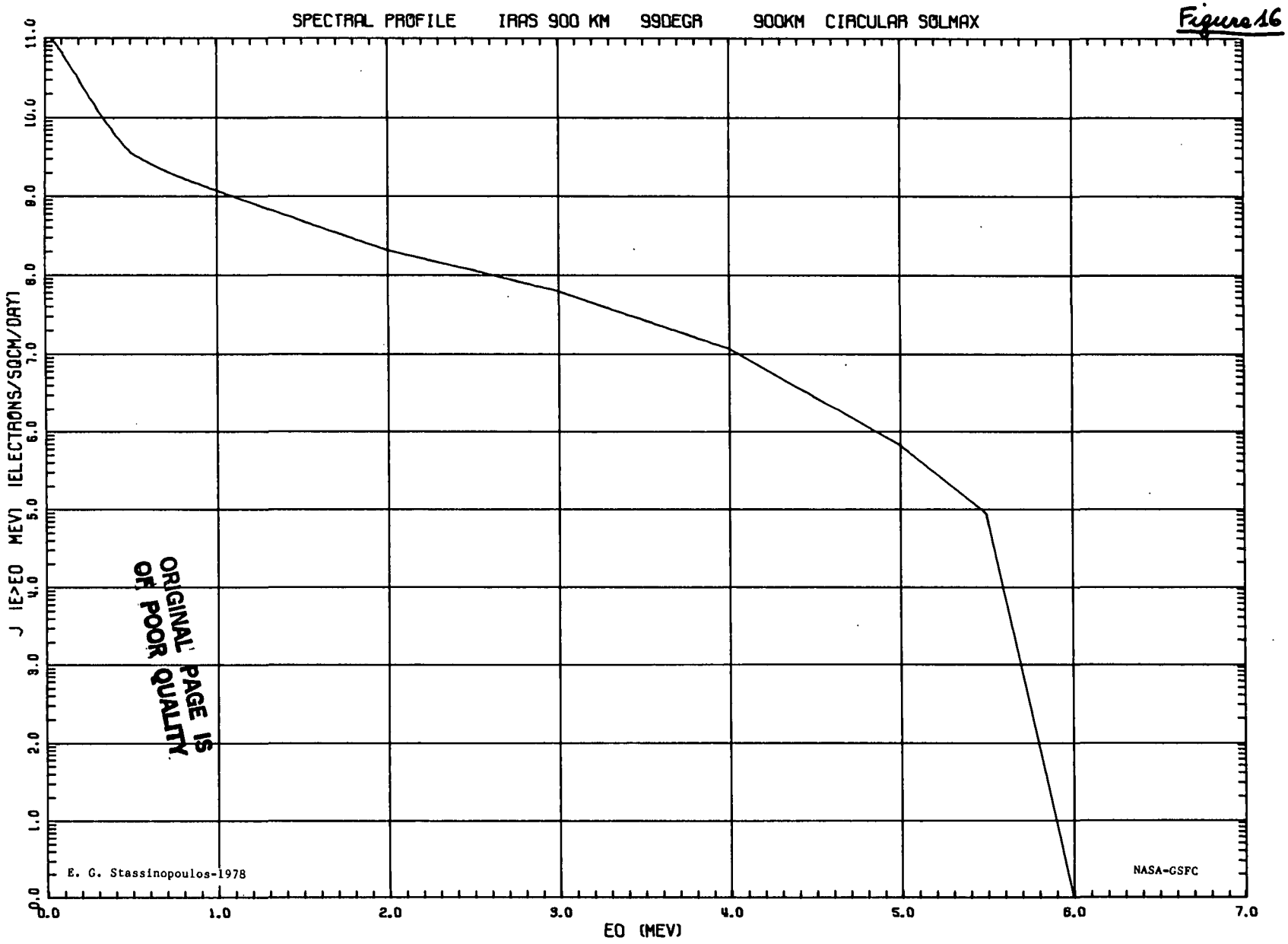

SPECTRAL PROFILE IRAS 900 KM 99DEGR 900KM CIRCULAR
J (E>E0 MEV) (PROTONS/SQCM/DAY)
10.0
9.0
8.0
7.0
6.0
5.0
0.0
50.0
100.0
150.0
200.0
250.0
300.0
350.0
400.0
450.0
500.0
E0 (MEV)
E. G. Stassinopoulos-1978
NASA-GSFC

Figure 16



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Figure 17

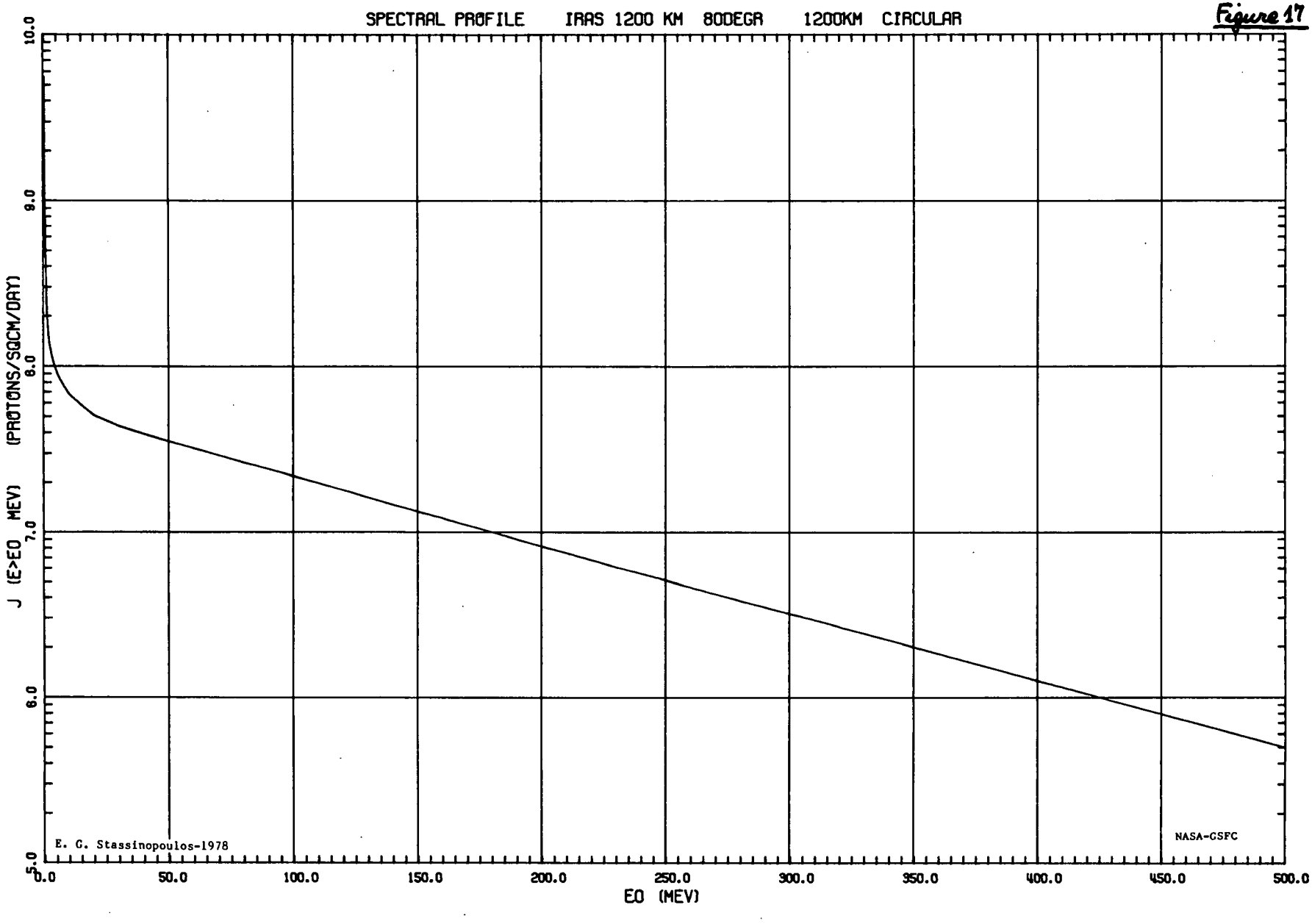
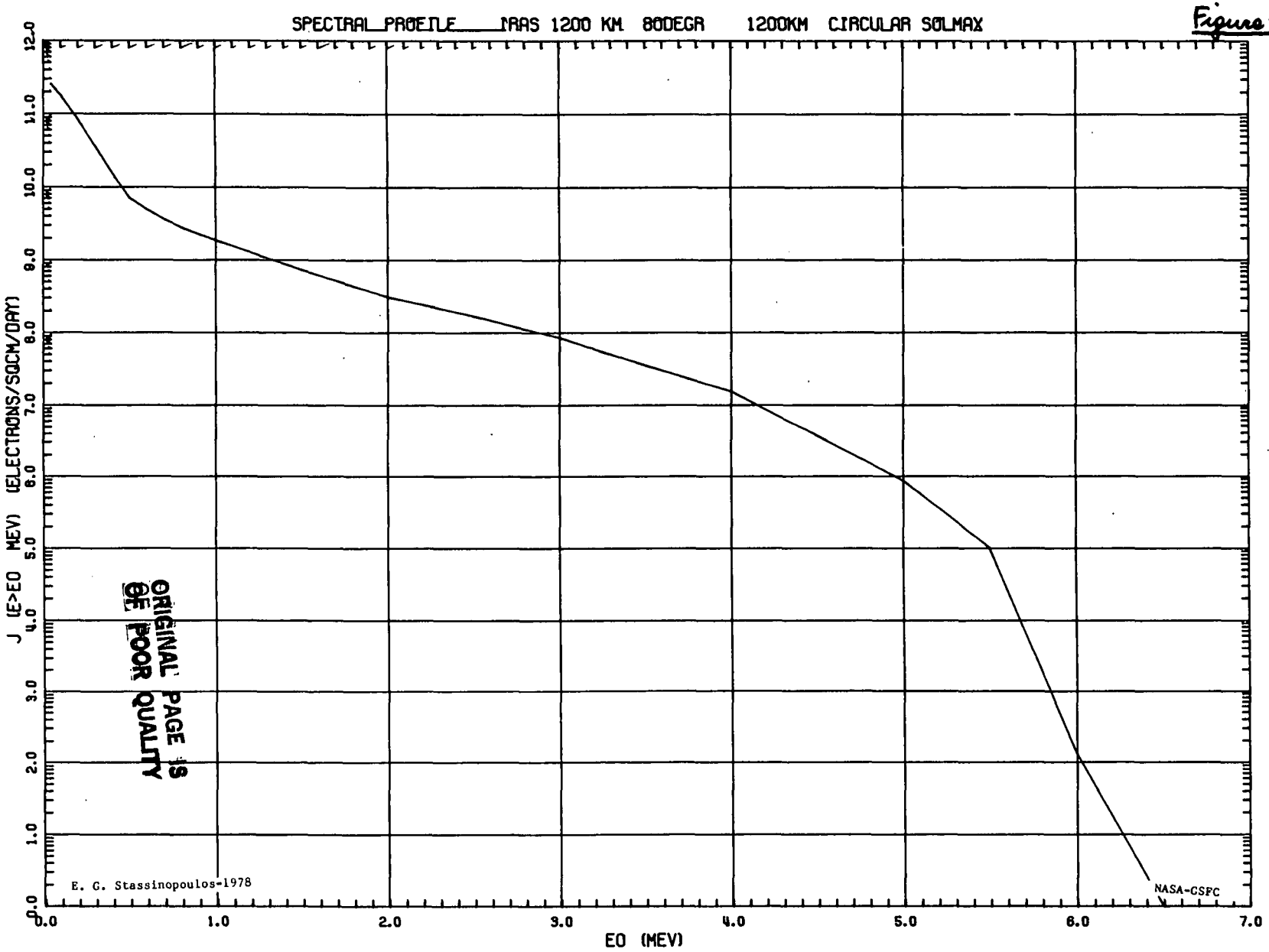

SPECTRAL PROFILE IRAS 1200 KM 80DEGR 1200KM CIRCULAR
J (E>E0 MEV) (PROTONS/SQCM/DAY)
10.0
9.0
8.0
7.0
6.0
5.0
0.0
50.0
100.0
150.0
200.0
250.0
300.0
350.0
400.0
450.0
500.0
E0 (MEV)
E. G. Stassinopoulos-1978
NASA-GSFC

Figure 18



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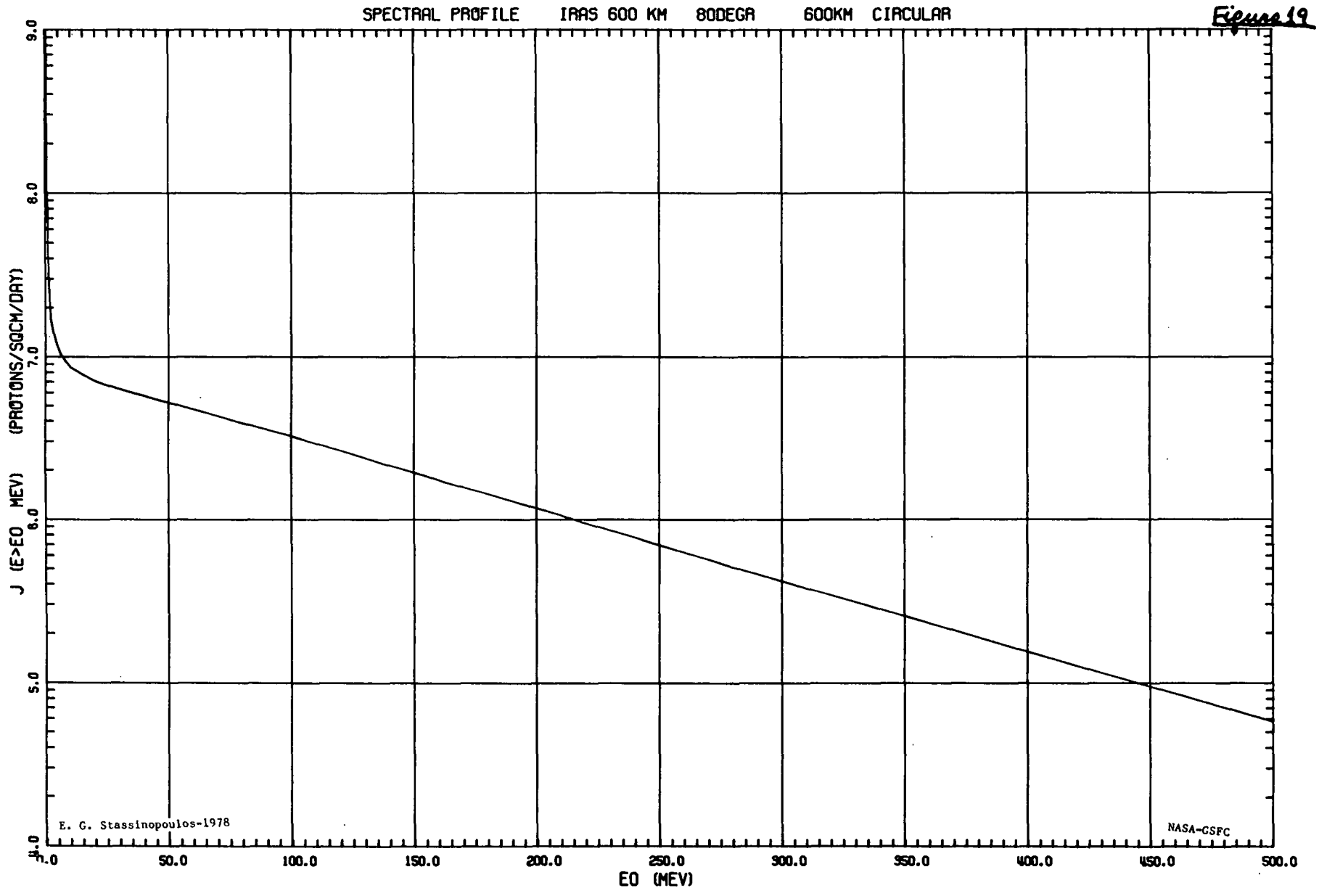

SPECTRAL PROFILE IRAS 600 KM 80DEGR 600KM CIRCULAR
J (E>E0 MEV) (PROTONS/SQCM/DAY)
9.0
8.0
7.0
6.0
5.0
4.0
1.0
50.0
100.0
150.0
200.0
250.0
300.0
350.0
400.0
450.0
500.0
E0 (MEV)
E. G. Stassinopoulos-1978
NASA-GSFC

Figure 19

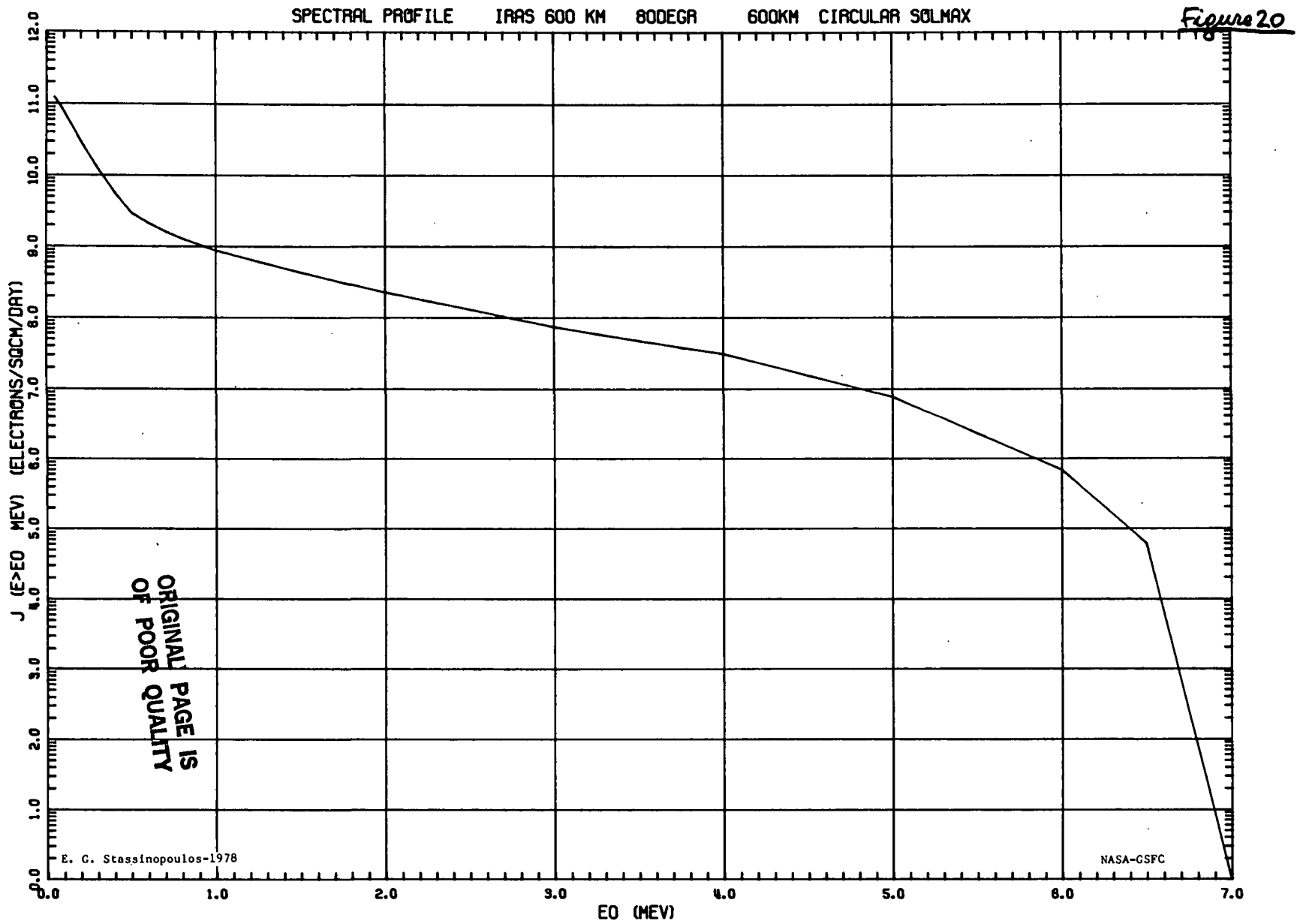
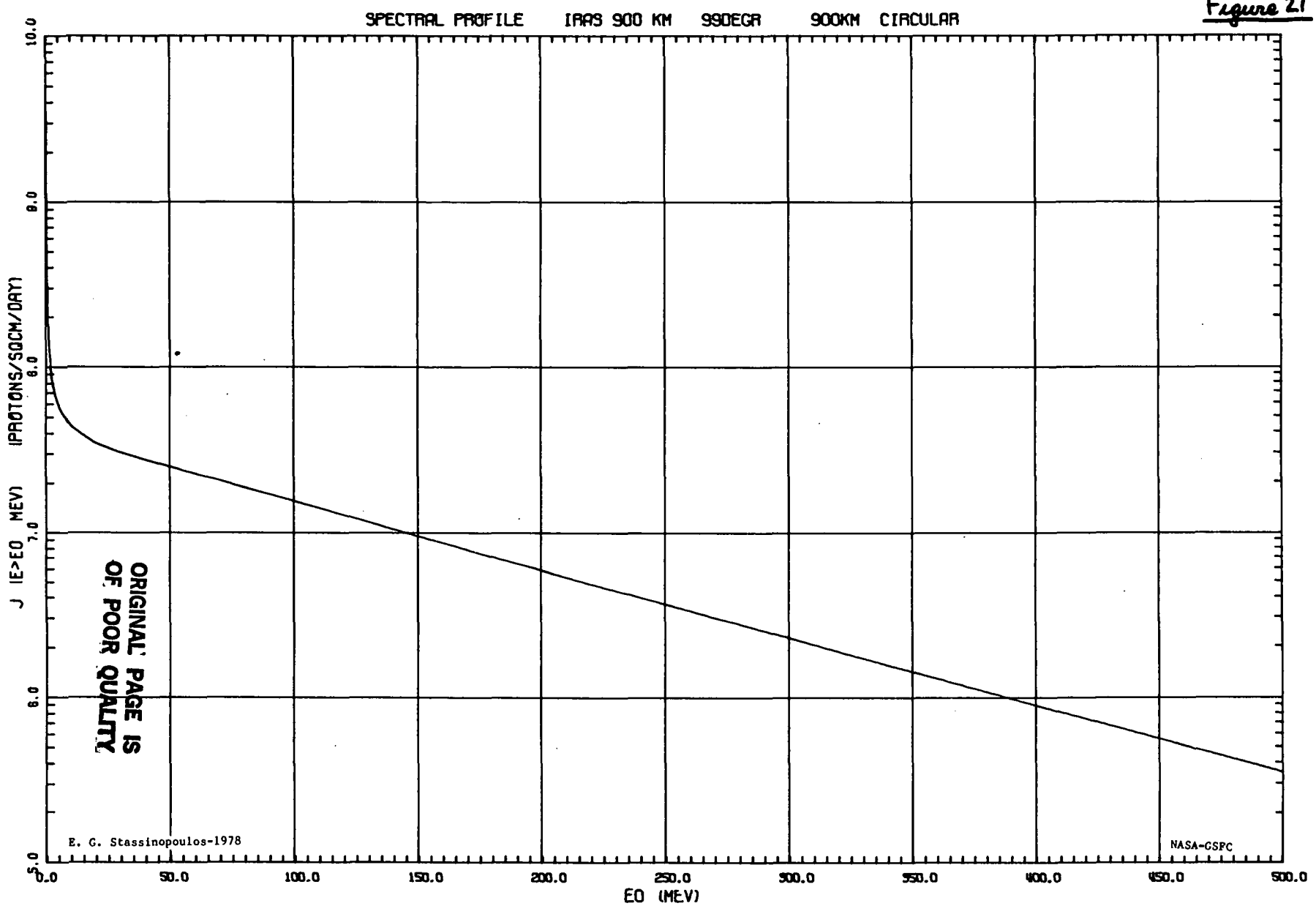


Figure 20

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Figure 21



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Figure 22

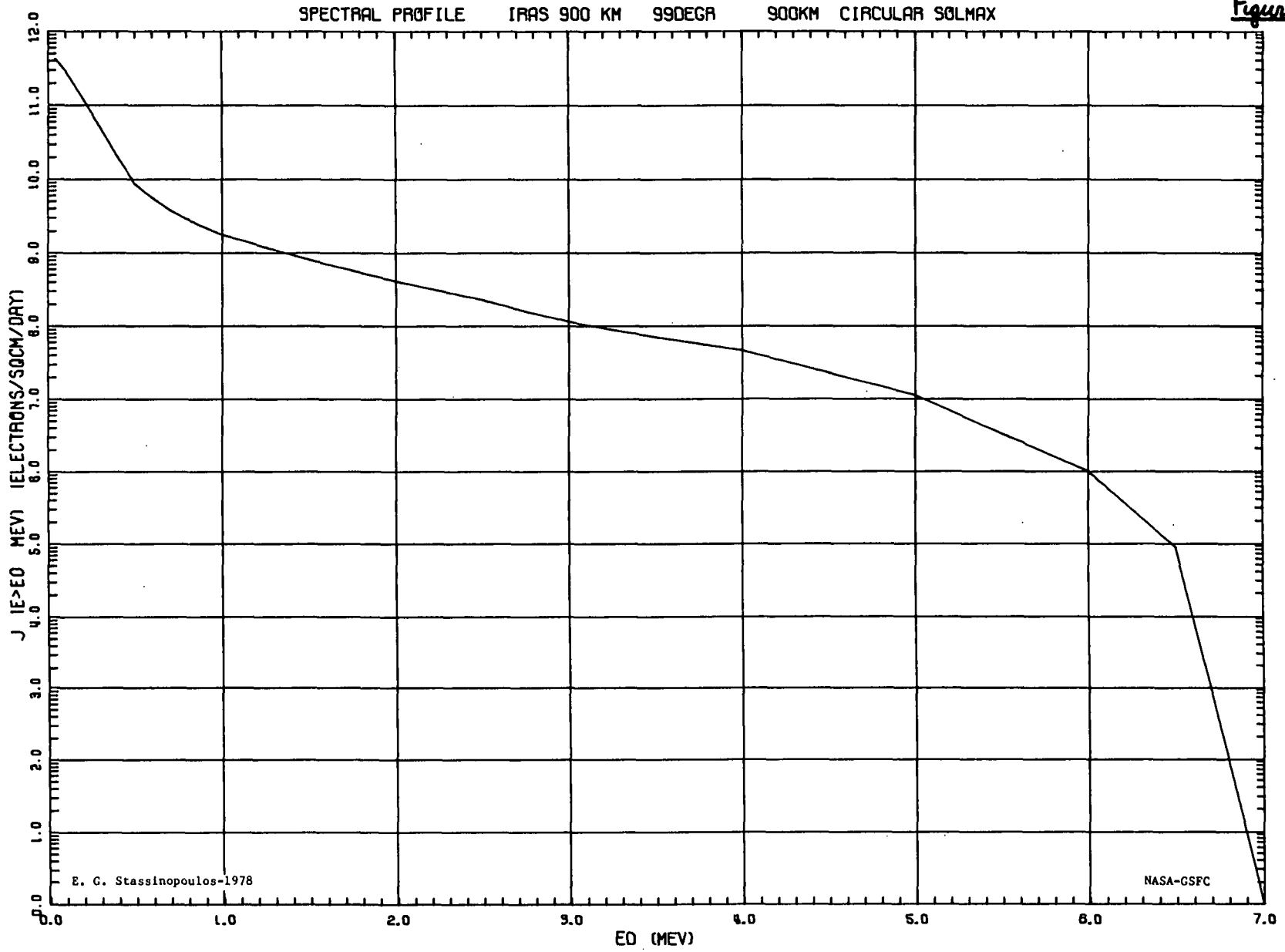

SPECTRAL PROFILE IRAS 900 KM 99DEGR 900KM CIRCULAR SOLMAX
J (E>EO MEV) (ELECTRONS/SQCM/DAY)
EO (MEV)
E. G. Stassinopoulos-1978
NASA-GSFC
0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
9.0
10.0
11.0
12.0

Figure 23

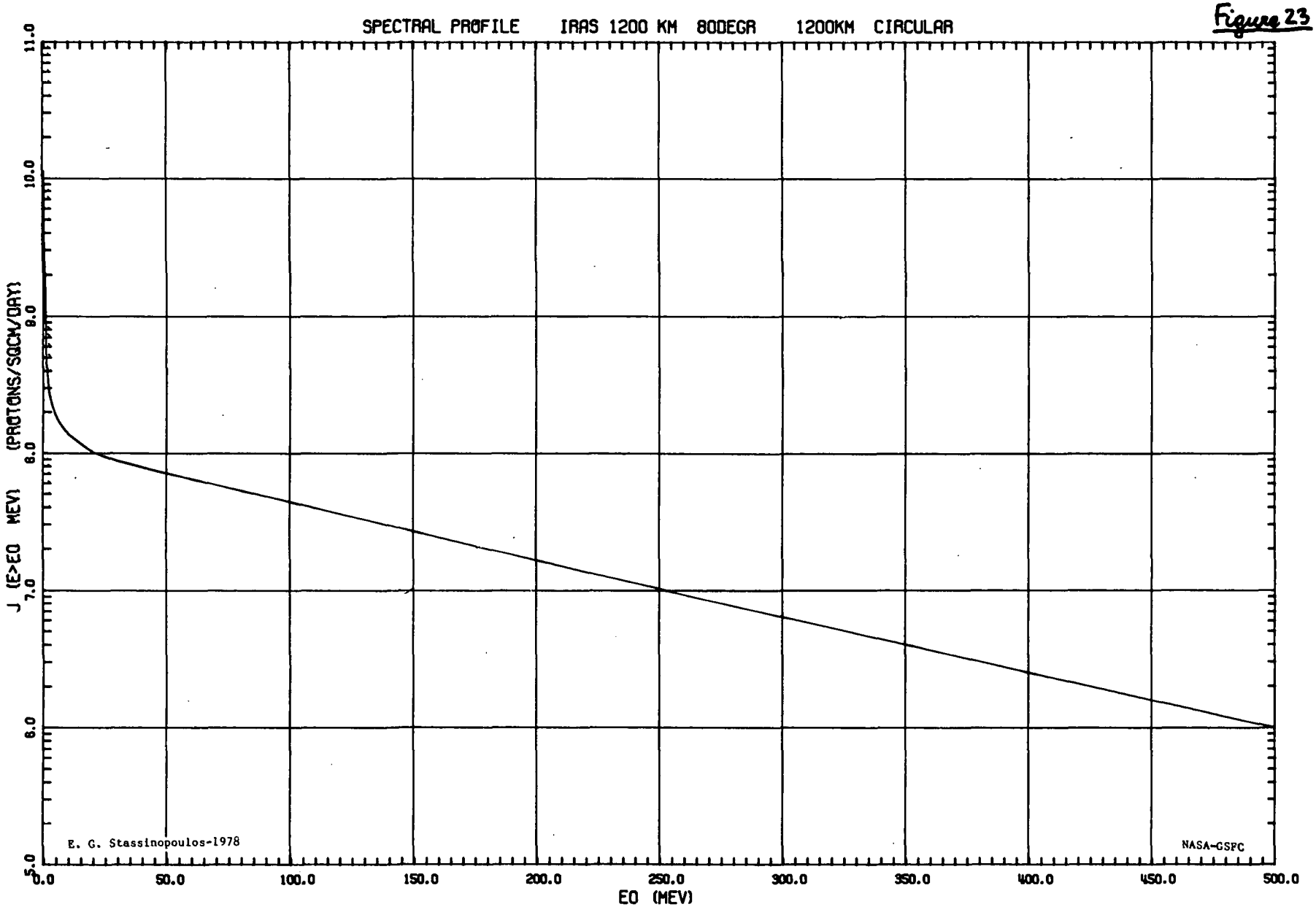
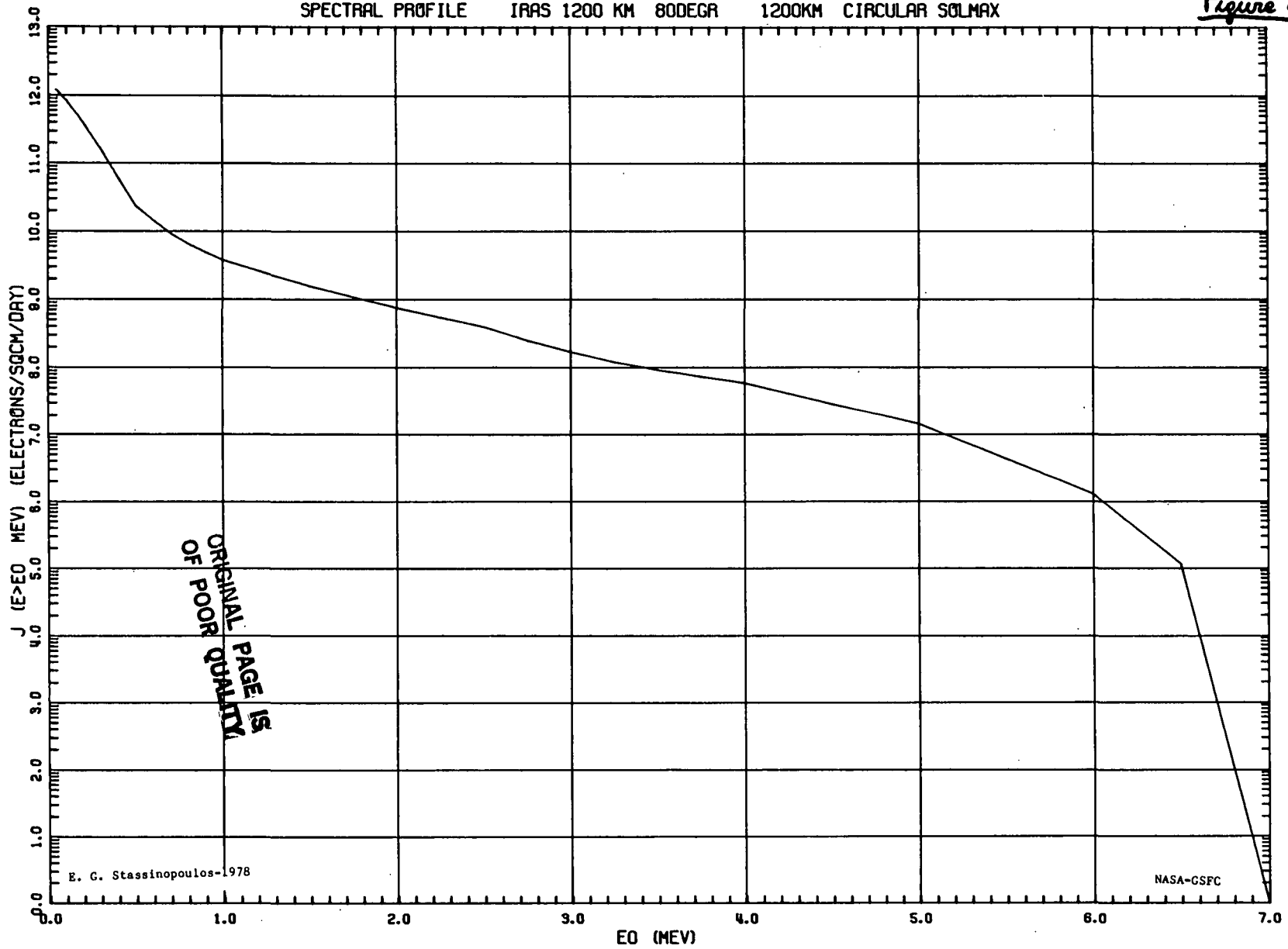

SPECTRAL PROFILE IRAS 1200 KM 80DEGR 1200KM CIRCULAR
J (E>E0 MEV) (PROTONS/SQCM/DAY)
11.0
10.0
9.0
8.0
7.0
6.0
5.0
0.0
50.0
100.0
150.0
200.0
250.0
300.0
350.0
400.0
450.0
500.0
E0 (MEV)
E. G. Stassinopoulos-1978
NASA-GSFC

Figure 24



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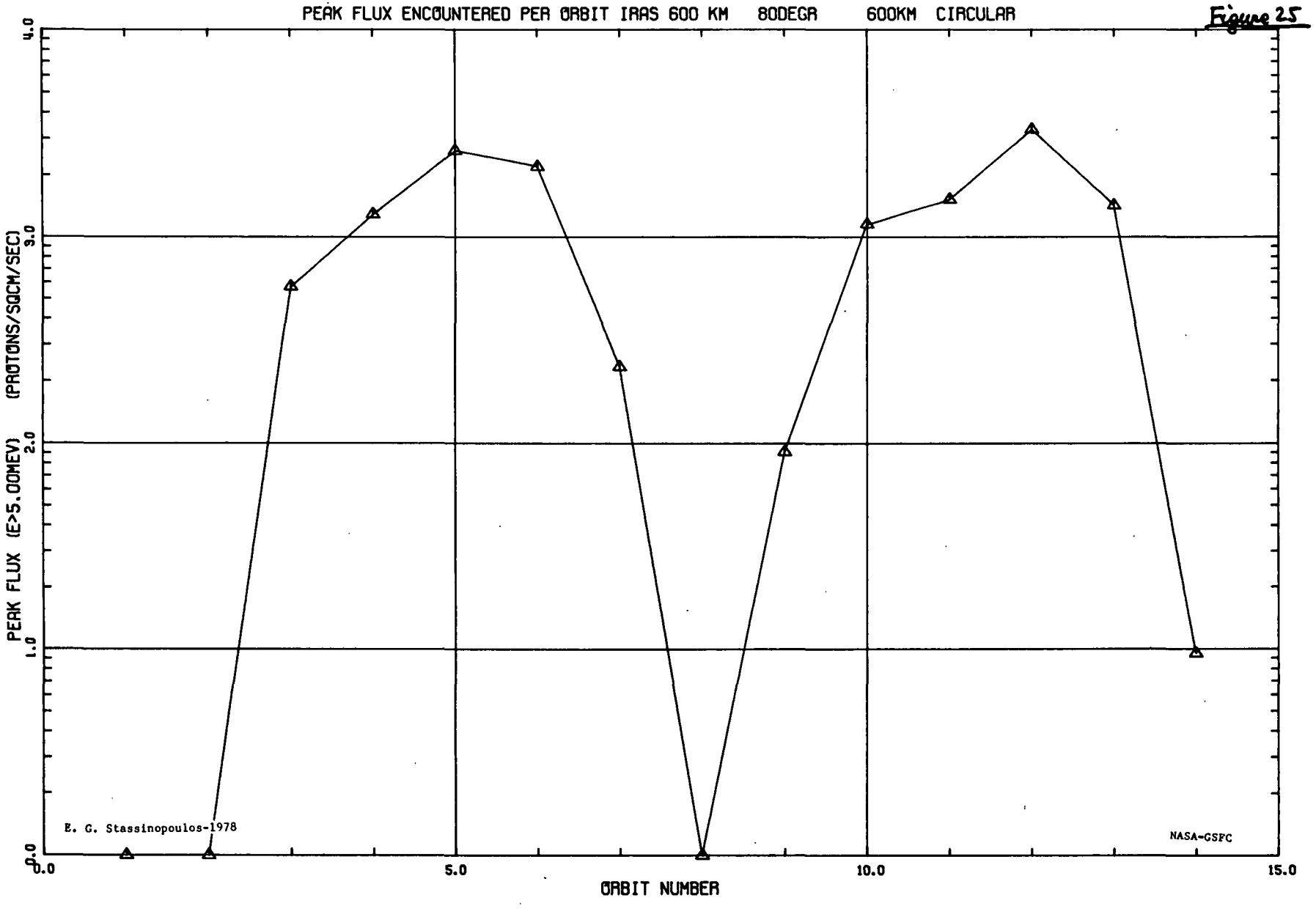

PEAK FLUX ENCOUNTERED PER ORBIT IRAS 600 KM 80DEGR 600KM CIRCULAR
Figure 25
PEAK FLUX (E>5.00MEV) (PROTONS/SQCM/SEC)
4.0
3.0
2.0
1.0
0.0
0.0
5.0
10.0
15.0
ORBIT NUMBER
E. G. Stassinopoulos-1978
NASA-GSFC

Figure 26

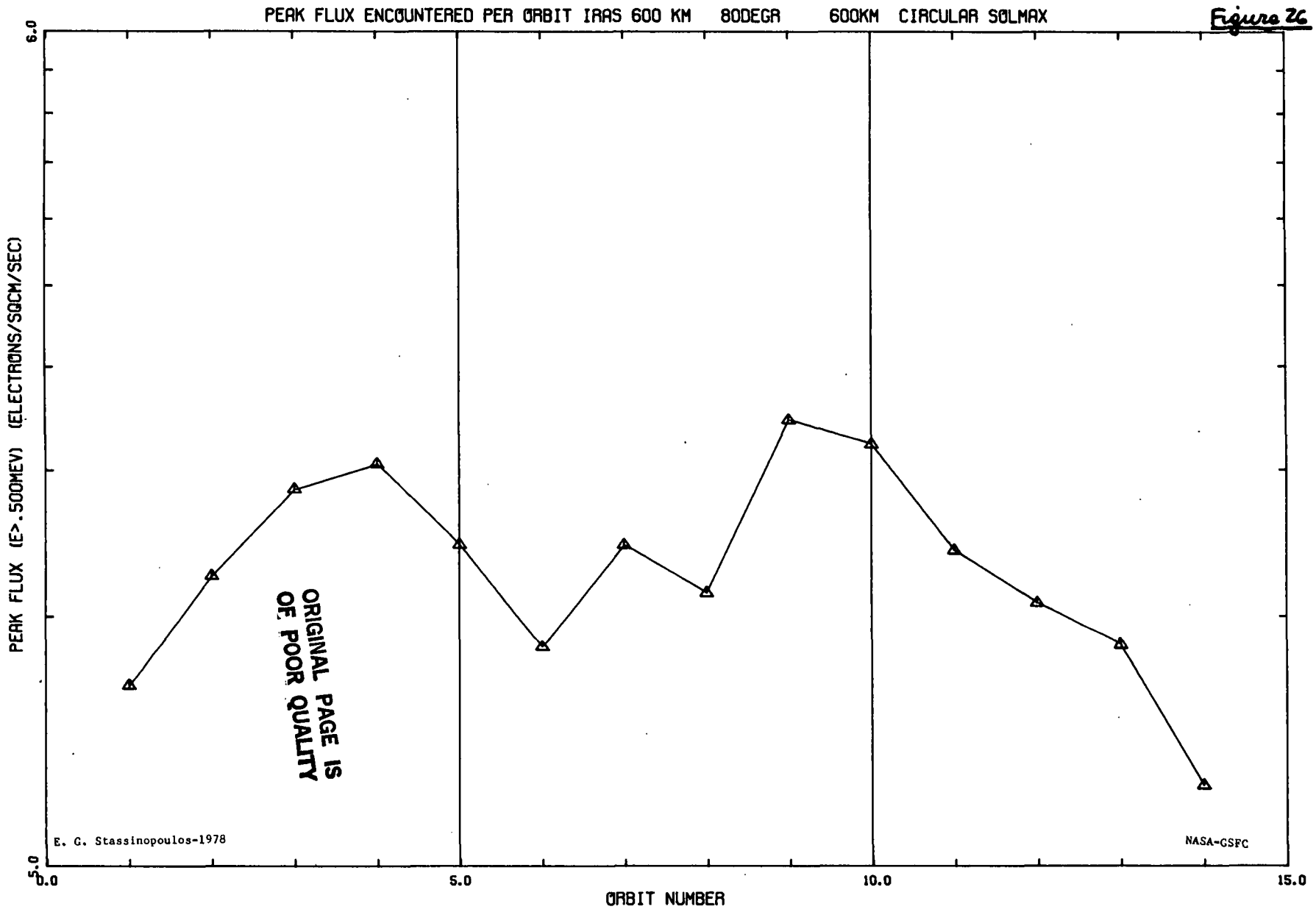

PEAK FLUX ENCOUNTERED PER ORBIT IRAS 600 KM 80DEGR 600KM CIRCULAR SOLMAX
PEAK FLUX (E>.500MEV) (ELECTRONS/SQCM/SEC)
6.0
5.0
0.0
5.0
10.0
15.0
ORBIT NUMBER
ORIGINAL PAGE IS
OF POOR QUALITY
E. G. Stassinopoulos-1978
NASA-GSFC

Figura 27

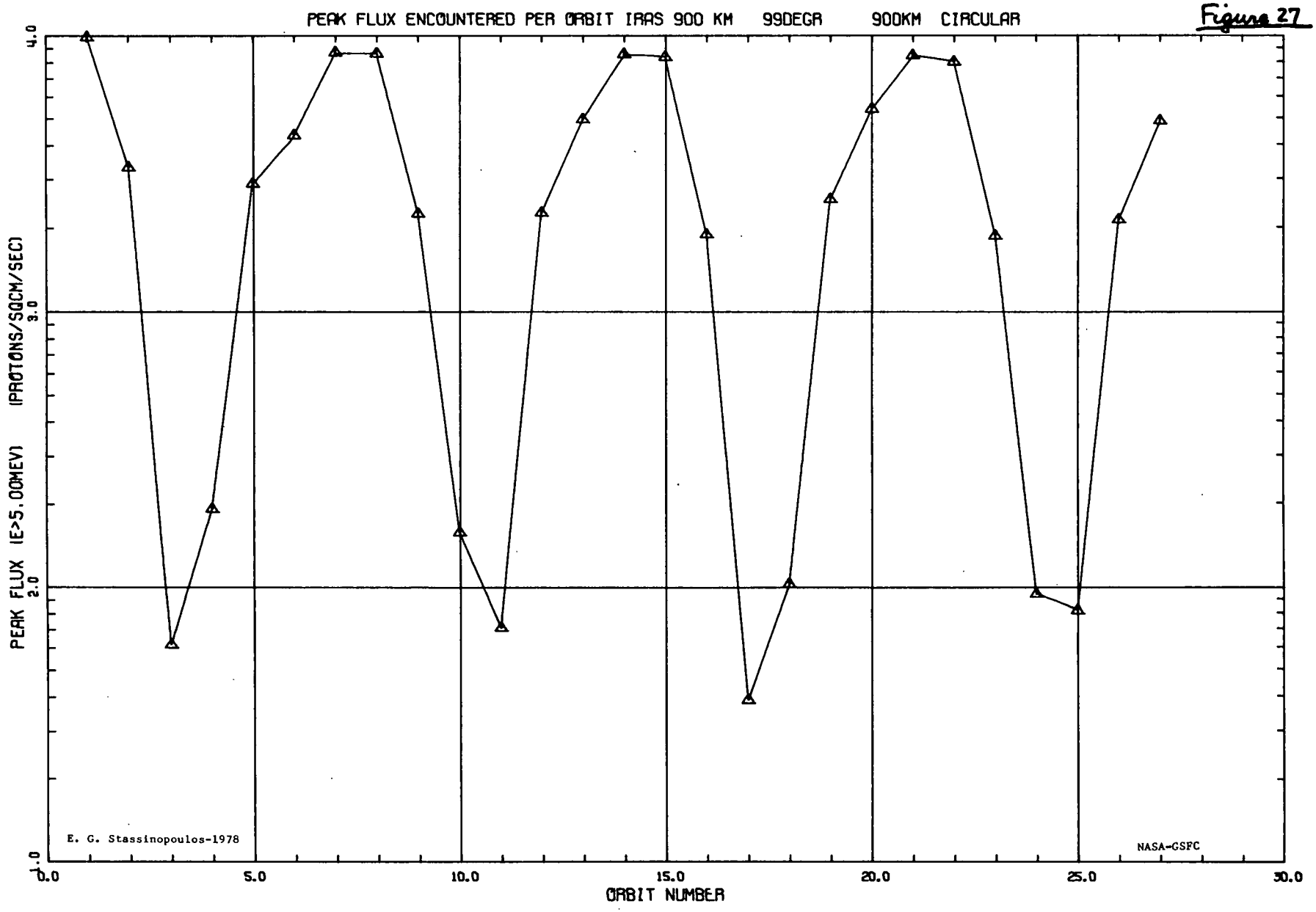
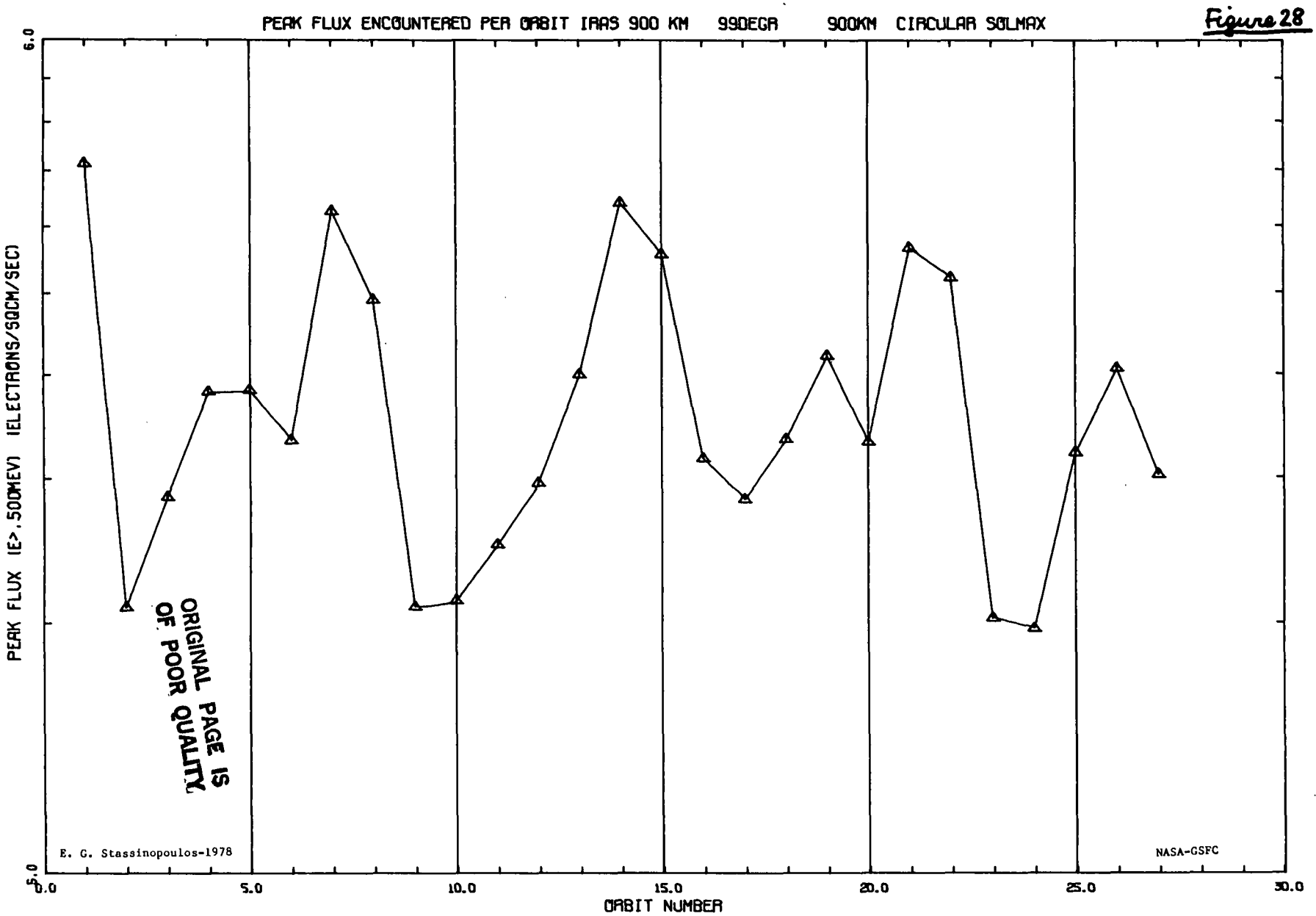

PEAK FLUX ENCOUNTERED PER ORBIT IRAS 900 KM 99DEGR 900KM CIRCULAR
PEAK FLUX (E>5.00MEV) (PROTONS/SQCM/SEC)
4.0
3.0
2.0
1.0
0.0
5.0
10.0
15.0
20.0
25.0
30.0
ORBIT NUMBER
E. G. Stassinopoulos-1978
NASA-GSFC

Figure 28



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Figure 29

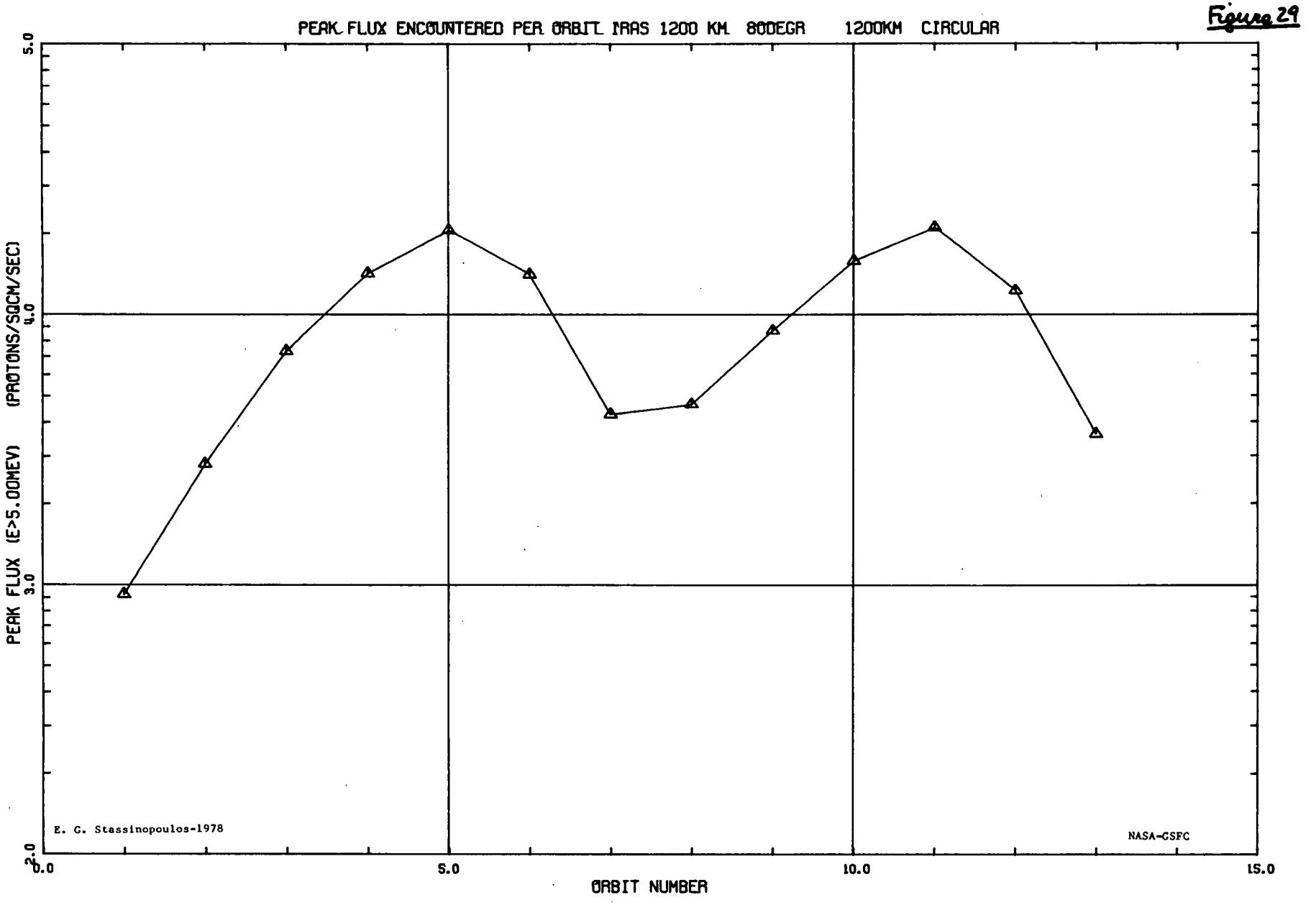
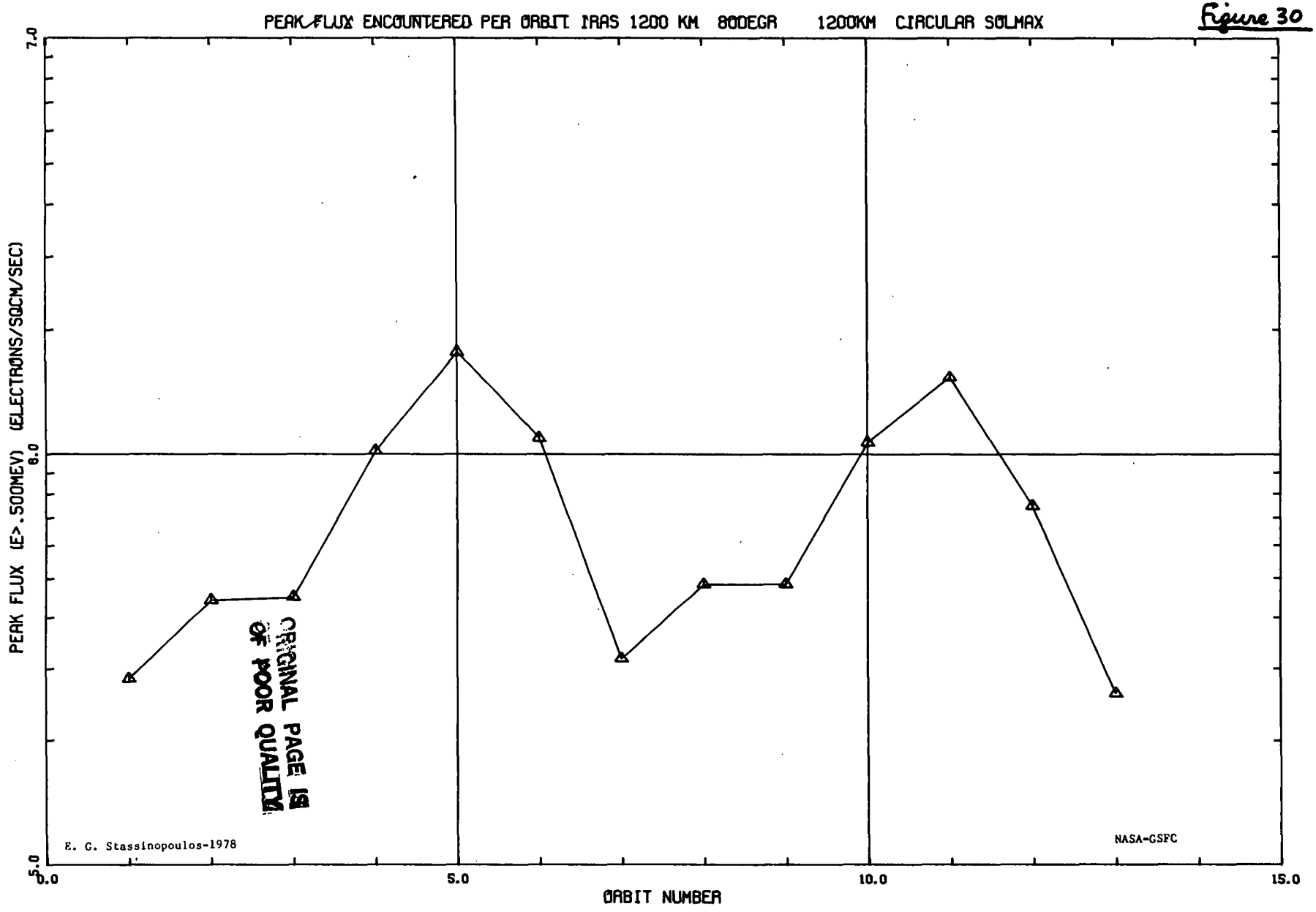

PEAK FLUX ENCOUNTERED PER ORBIT IRAS 1200 KM 80DEGR 1200KM CIRCULAR
PEAK FLUX (E>5.00MEV) (PROTONS/SQCM/SEC)
5.0
4.0
3.0
2.0
0.0
5.0
10.0
15.0
ORBIT NUMBER
E. G. Stassinopoulos-1978
NASA-GSFC

Figure 30



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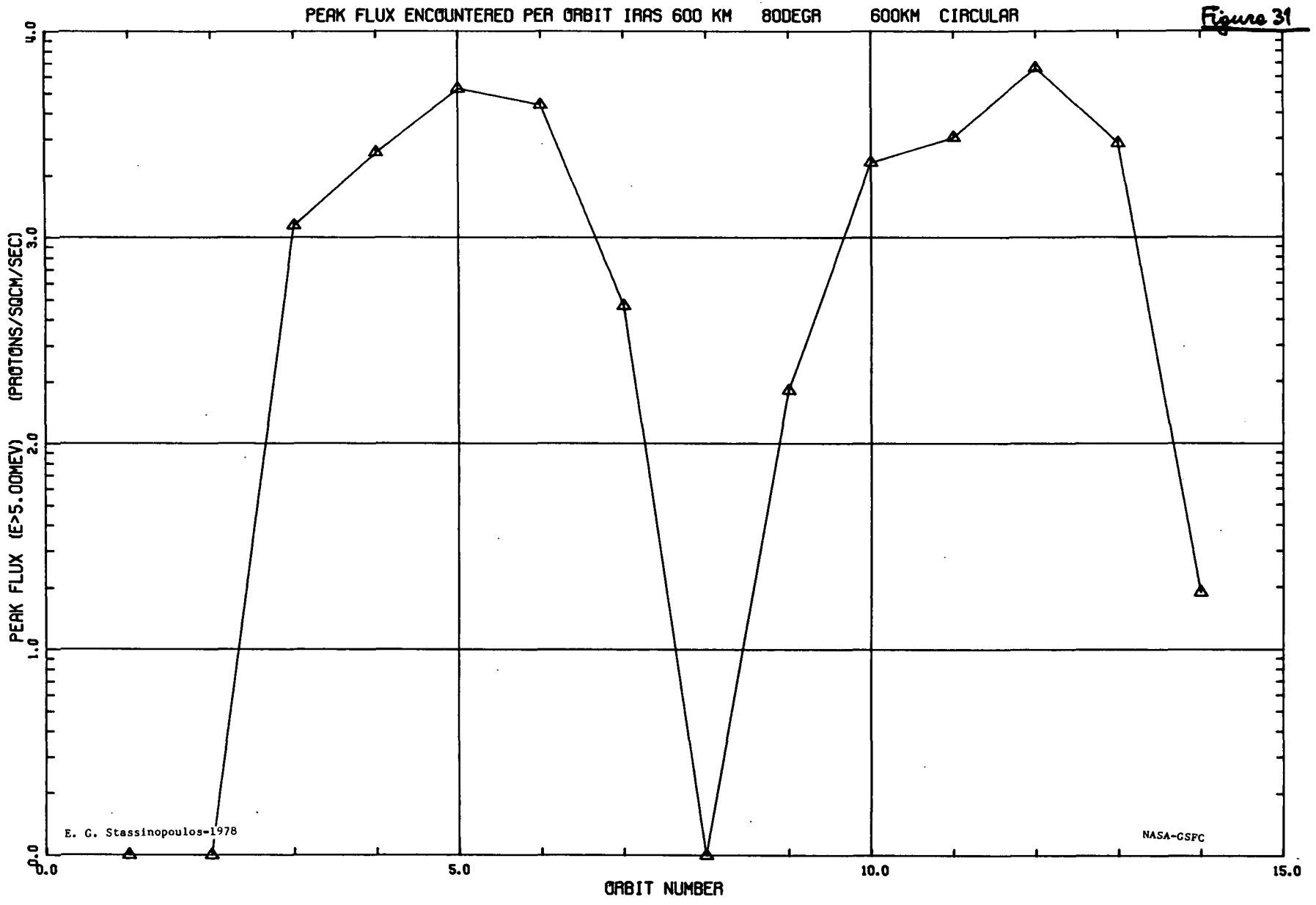

PEAK FLUX ENCOUNTERED PER ORBIT IRAS 600 KM 80DEGR 600KM CIRCULAR
PEAK FLUX (E>5.00MEV) (PROTONS/SQCM/SEC)
4.0
3.0
2.0
1.0
0.0
0.0
5.0
10.0
15.0
ORBIT NUMBER
E. G. Stassinopoulos-1978
NASA-GSFC

Figure 31

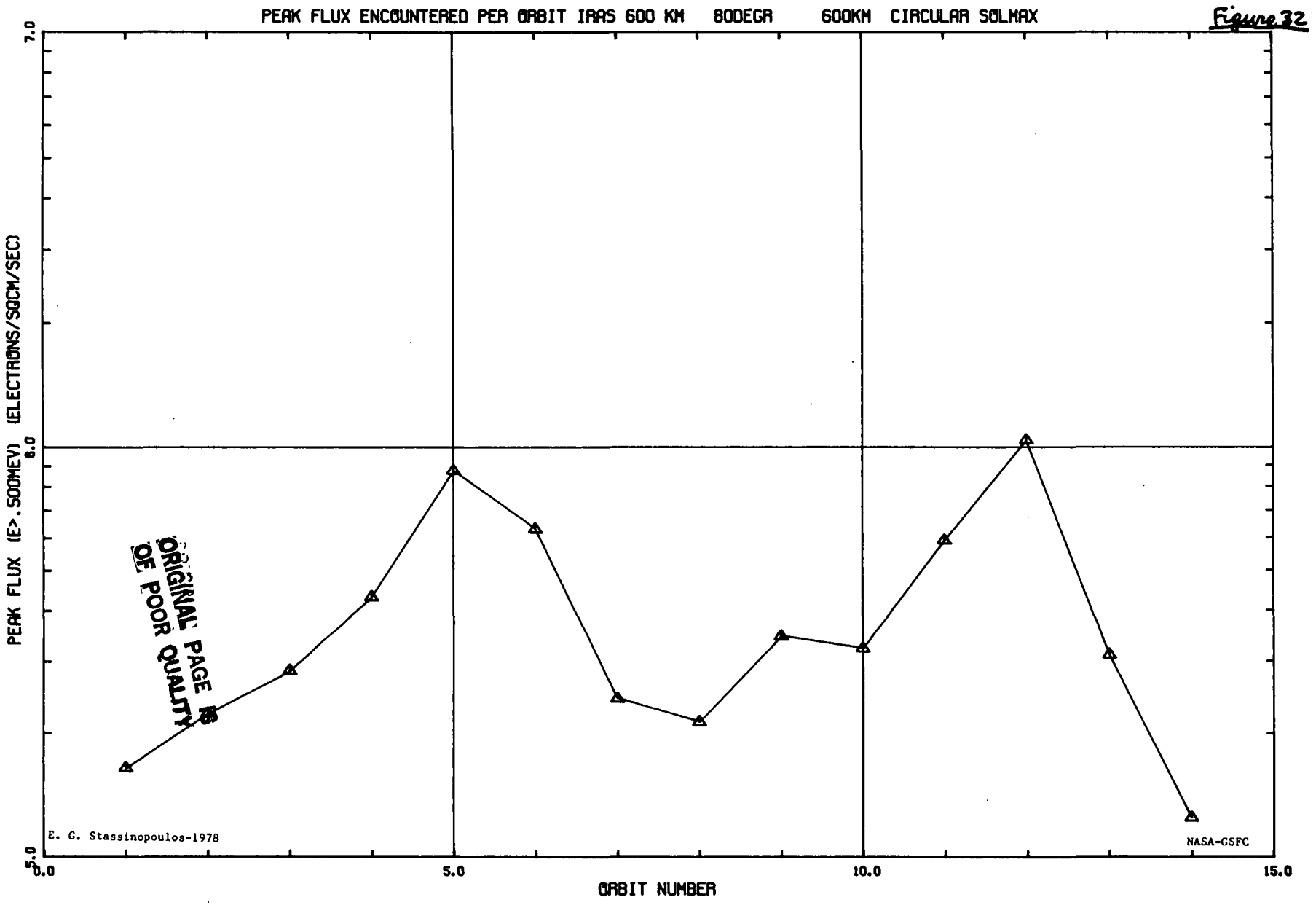


Figure 32

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Figure 33

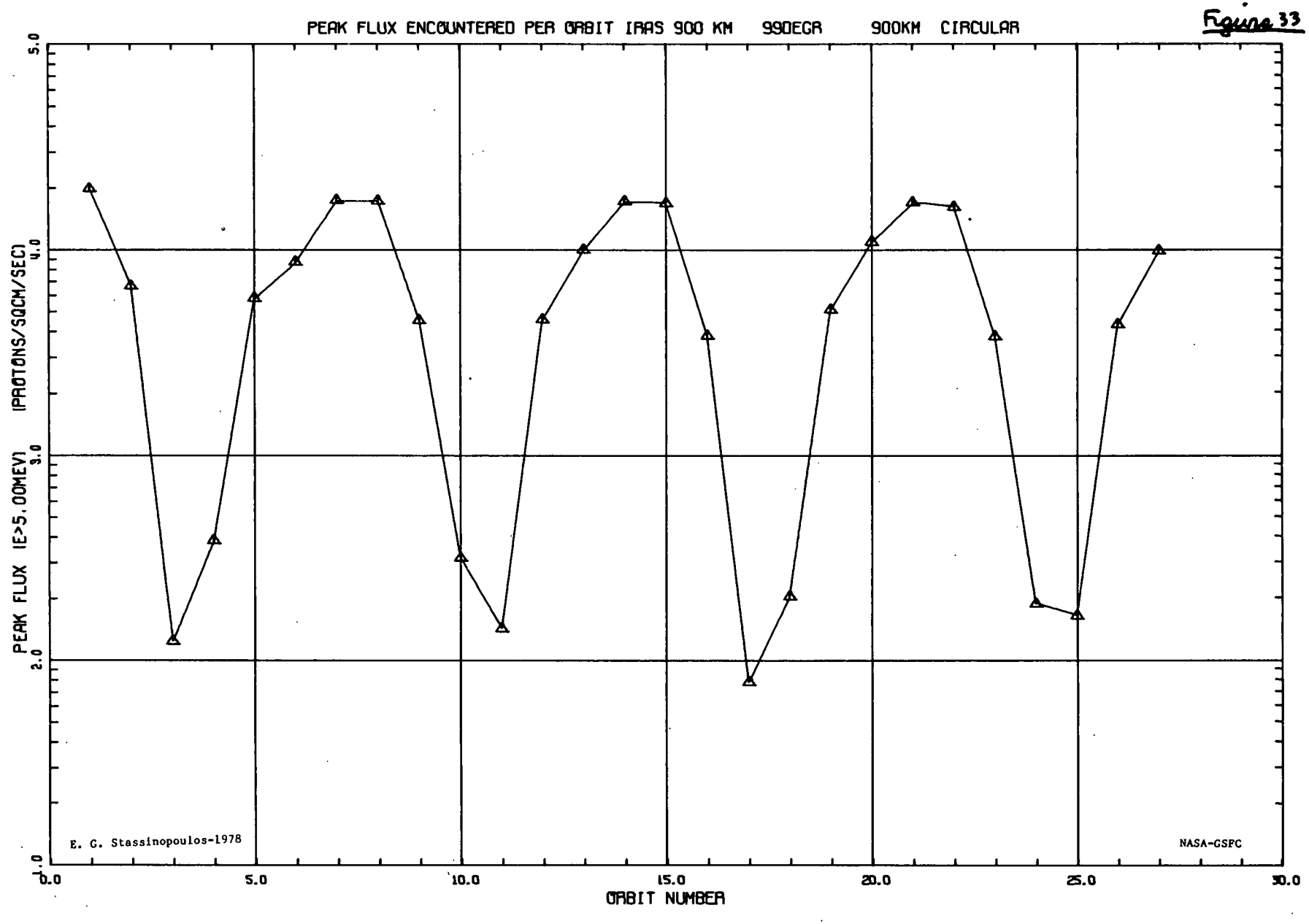
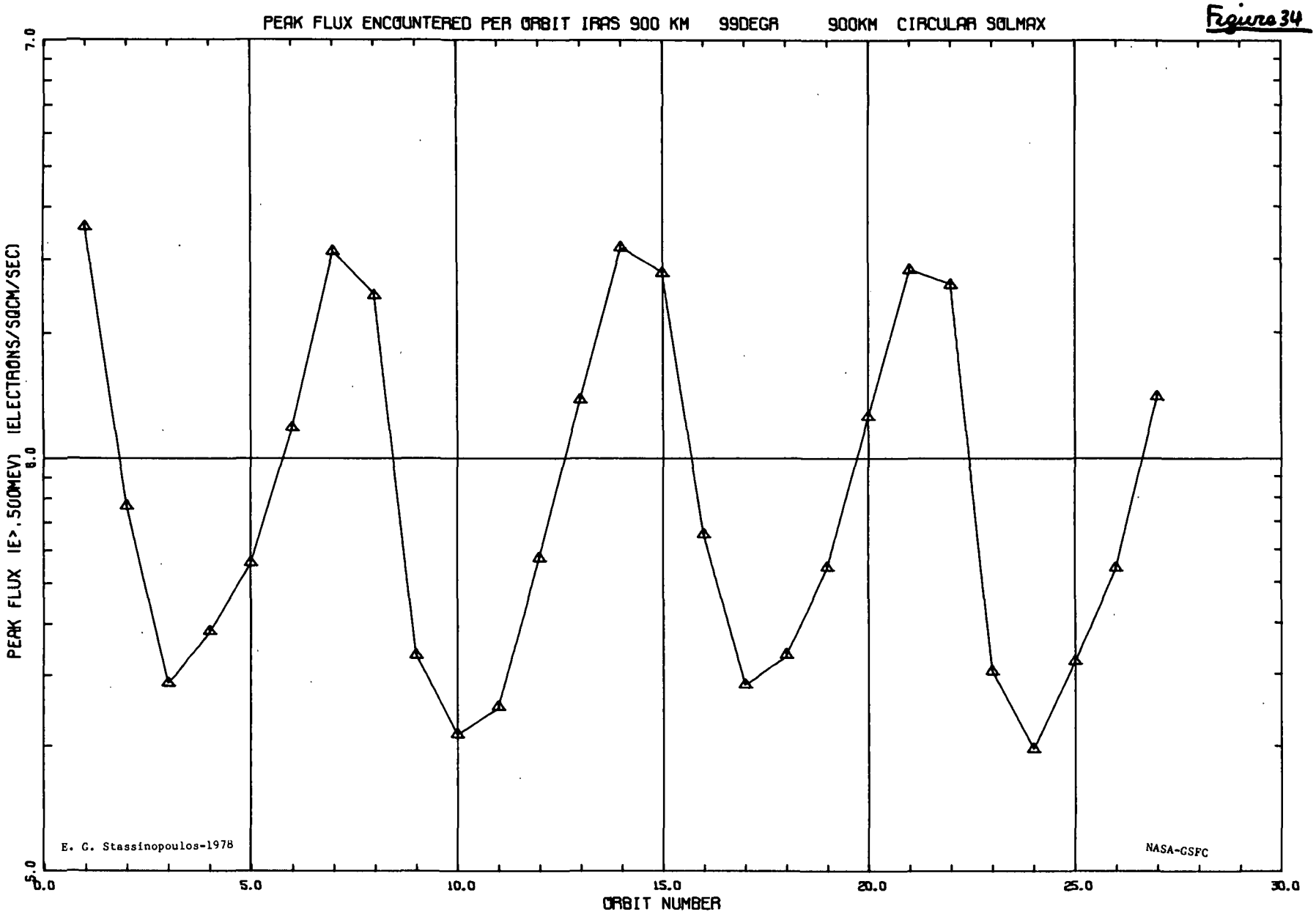

PEAK FLUX ENCOUNTERED PER ORBIT IRAS 900 KM 99DEGR 900KM CIRCULAR
PEAK FLUX IE>5.00MEV) (PROTONS/SQCM/SEC)
5.0
4.0
3.0
2.0
1.0
0.0
5.0
10.0
15.0
20.0
25.0
30.0
ORBIT NUMBER
E. G. Stassinopoulos-1978
NASA-GSFC

Figure 34


PEAK FLUX ENCOUNTERED PER ORBIT IRAS 900 KM 99DEGR 900KM CIRCULAR SOLMAX
PEAK FLUX (E>.500MEV) (ELECTRONS/SQCM/SEC)
7.0
6.0
5.0
0.0
5.0
10.0
15.0
20.0
25.0
30.0
ORBIT NUMBER
E. G. Stassinopoulos-1978
NASA-GSFC

C-2

Figure 35

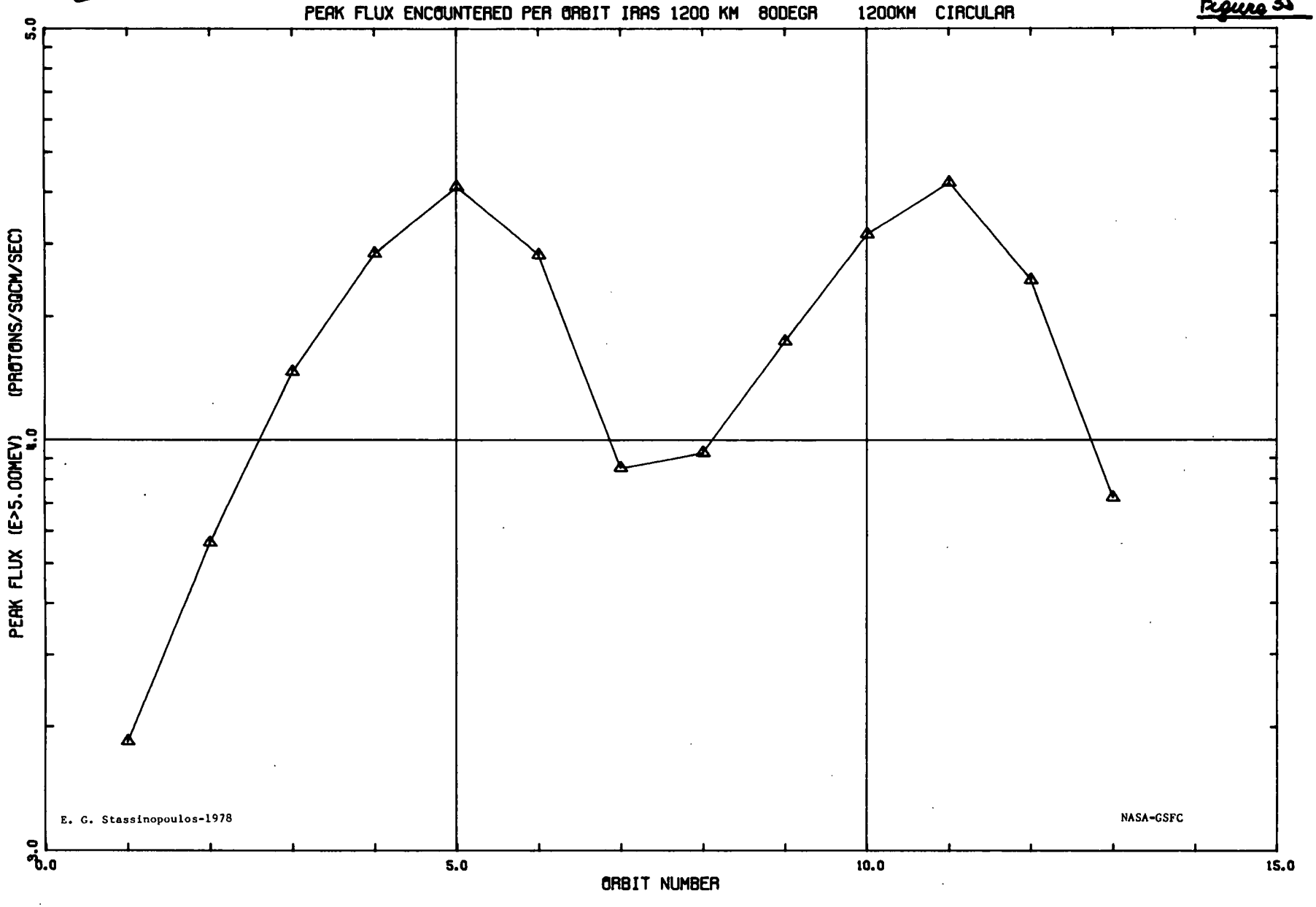

PEAK FLUX ENCOUNTERED PER ORBIT IRAS 1200 KM 80DEGR 1200KM CIRCULAR
PEAK FLUX (E>5.00MEV) (PROTONS/SQCM/SEC)
5.0
4.0
3.0
0.0
5.0
10.0
15.0
ORBIT NUMBER
E. G. Stassinopoulos-1978
NASA-GSFC

Figure 36

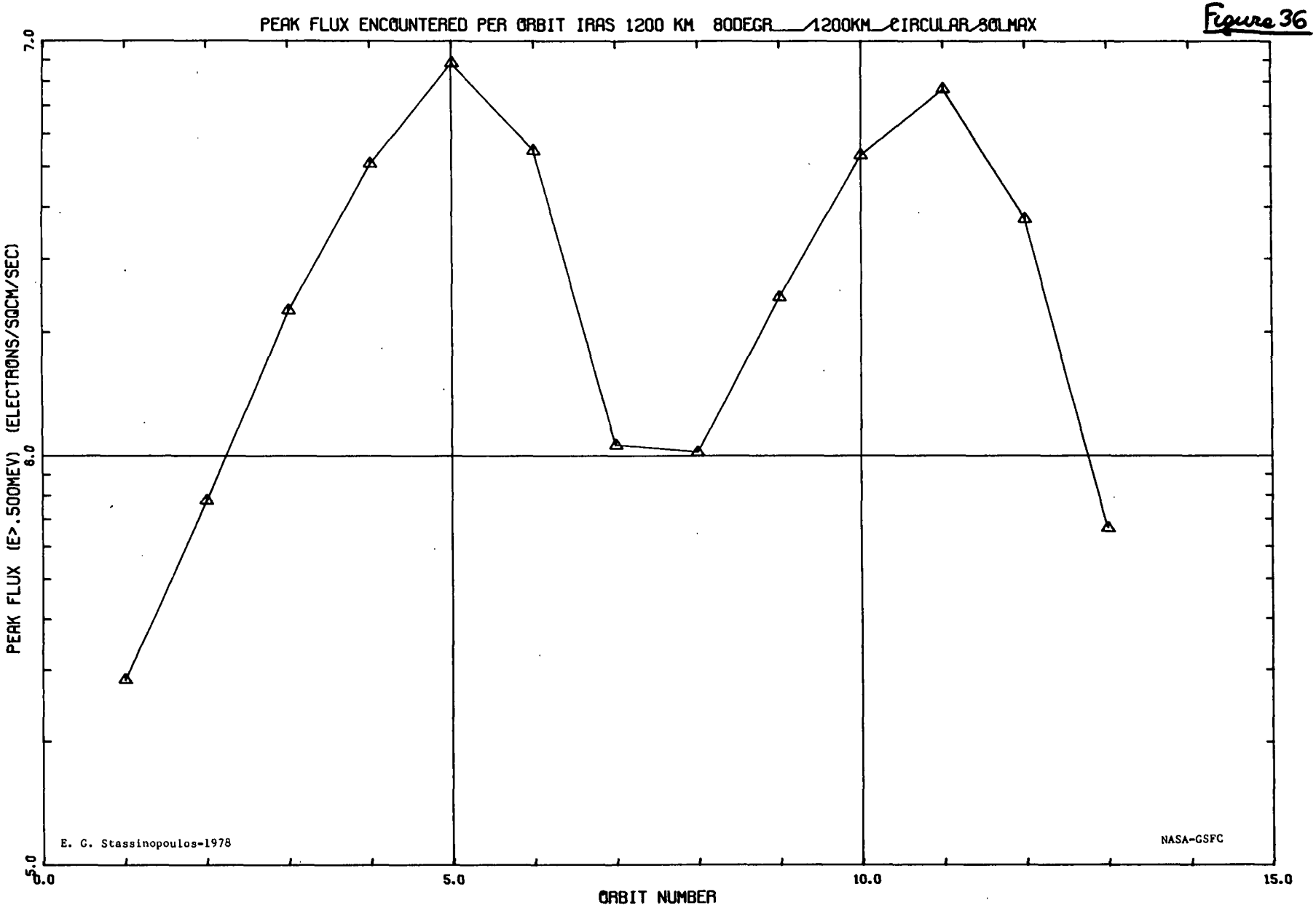

PEAK FLUX ENCOUNTERED PER ORBIT IRAS 1200 KM 80DEGR 1200KM CIRCULAR 30LMAX
PEAK FLUX (E>.500MEV) (ELECTRONS/SQCM/SEC)
7.0
6.0
5.0
0.0
5.0
10.0
15.0
ORBIT NUMBER
E. G. Stassinopoulos-1978
NASA-GSFC

Figure 37

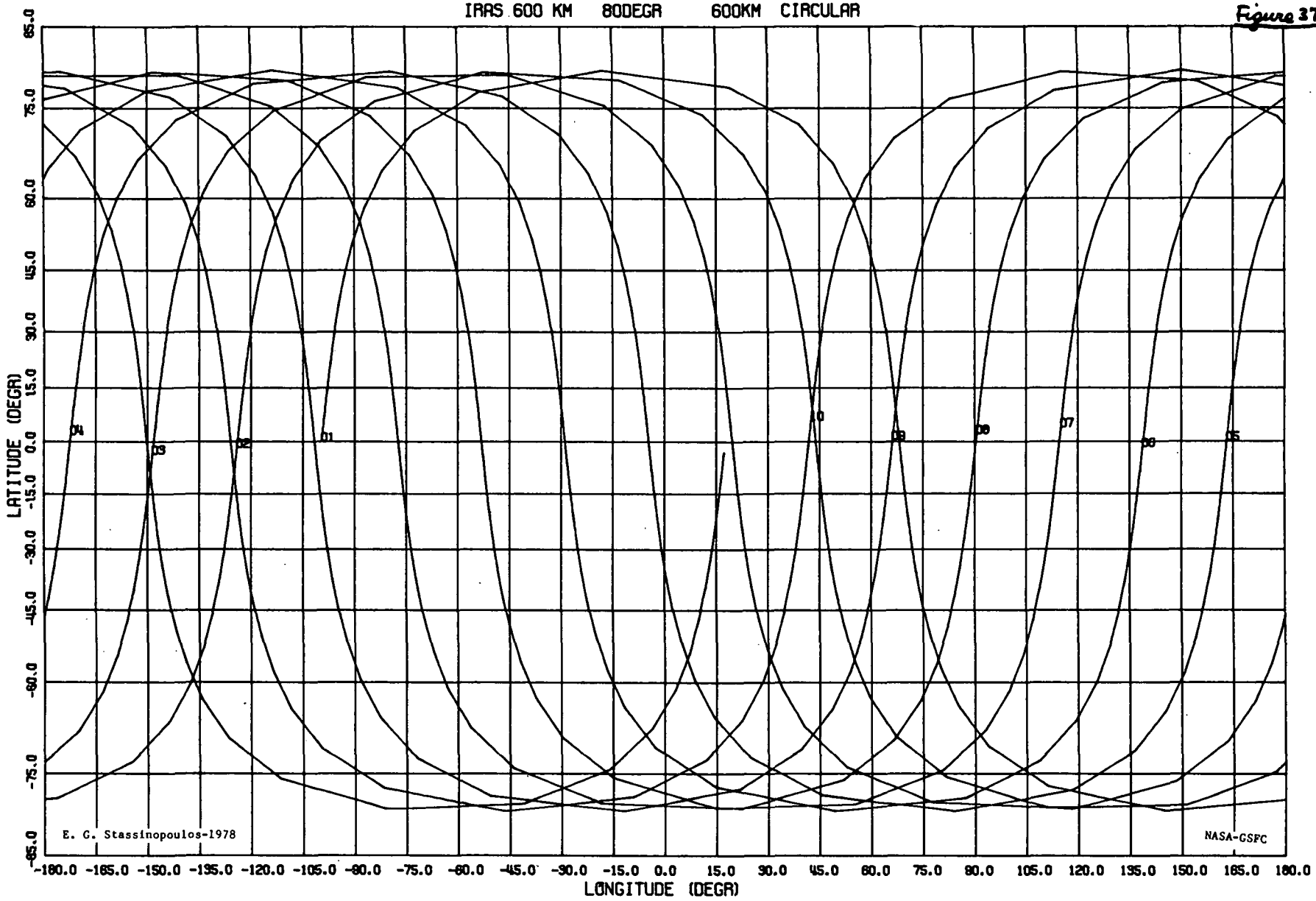

IRAS 600 KM 80DEGR 600KM CIRCULAR
LATITUDE (DEGR)
85.0
75.0
60.0
45.0
30.0
15.0
0.0
-15.0
-30.0
-45.0
-60.0
-75.0
-85.0
04
03
02
01
10
09
08
07
06
05
E. G. Stassinopoulos-1978
NASA-GSFC
-180.0 -165.0 -150.0 -135.0 -120.0 -105.0 -90.0 -75.0 -60.0 -45.0 -30.0 -15.0 0.0 15.0 30.0 45.0 60.0 75.0 90.0 105.0 120.0 135.0 150.0 165.0 180.0
LONGITUDE (DEGR)

Figure 38

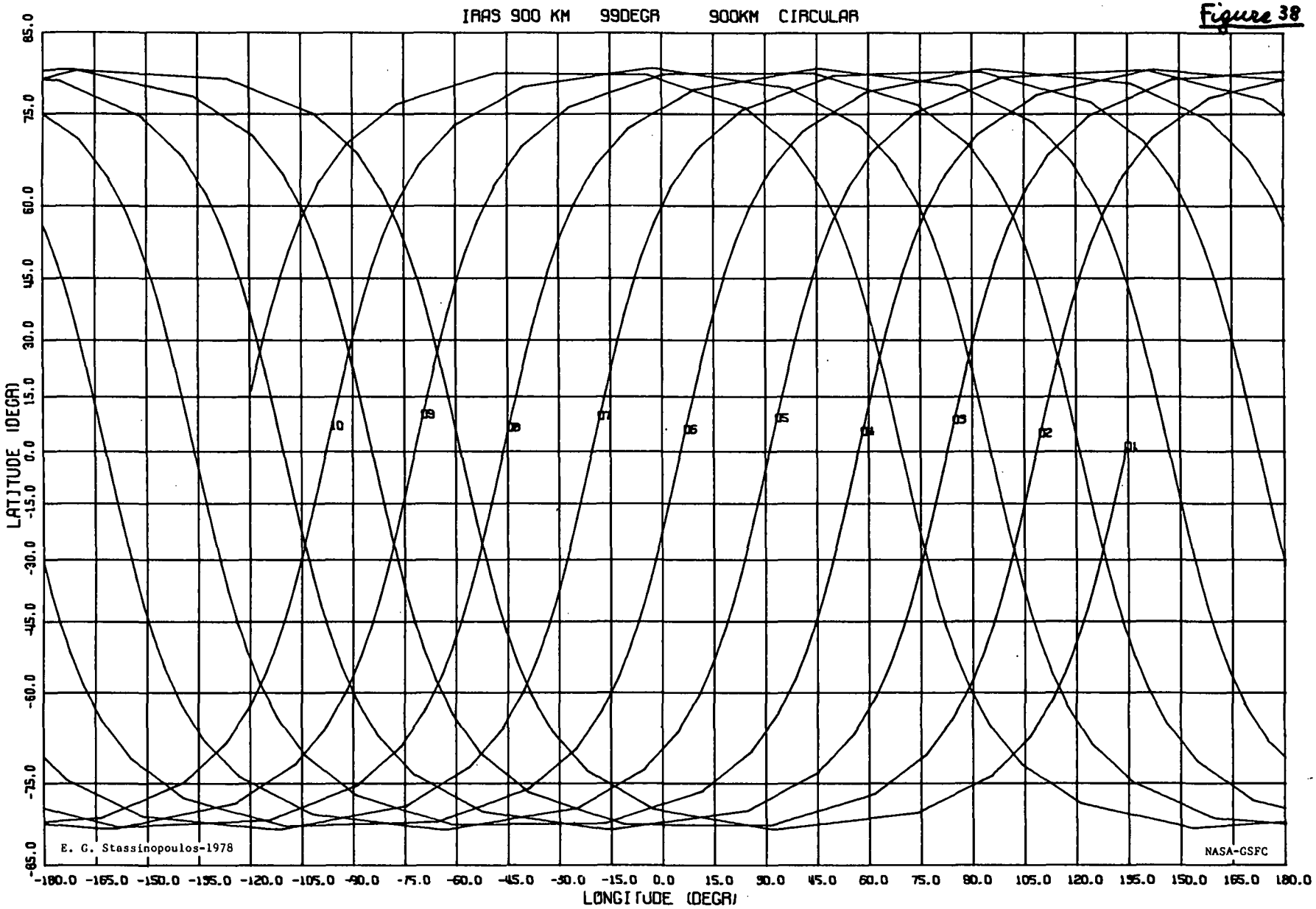
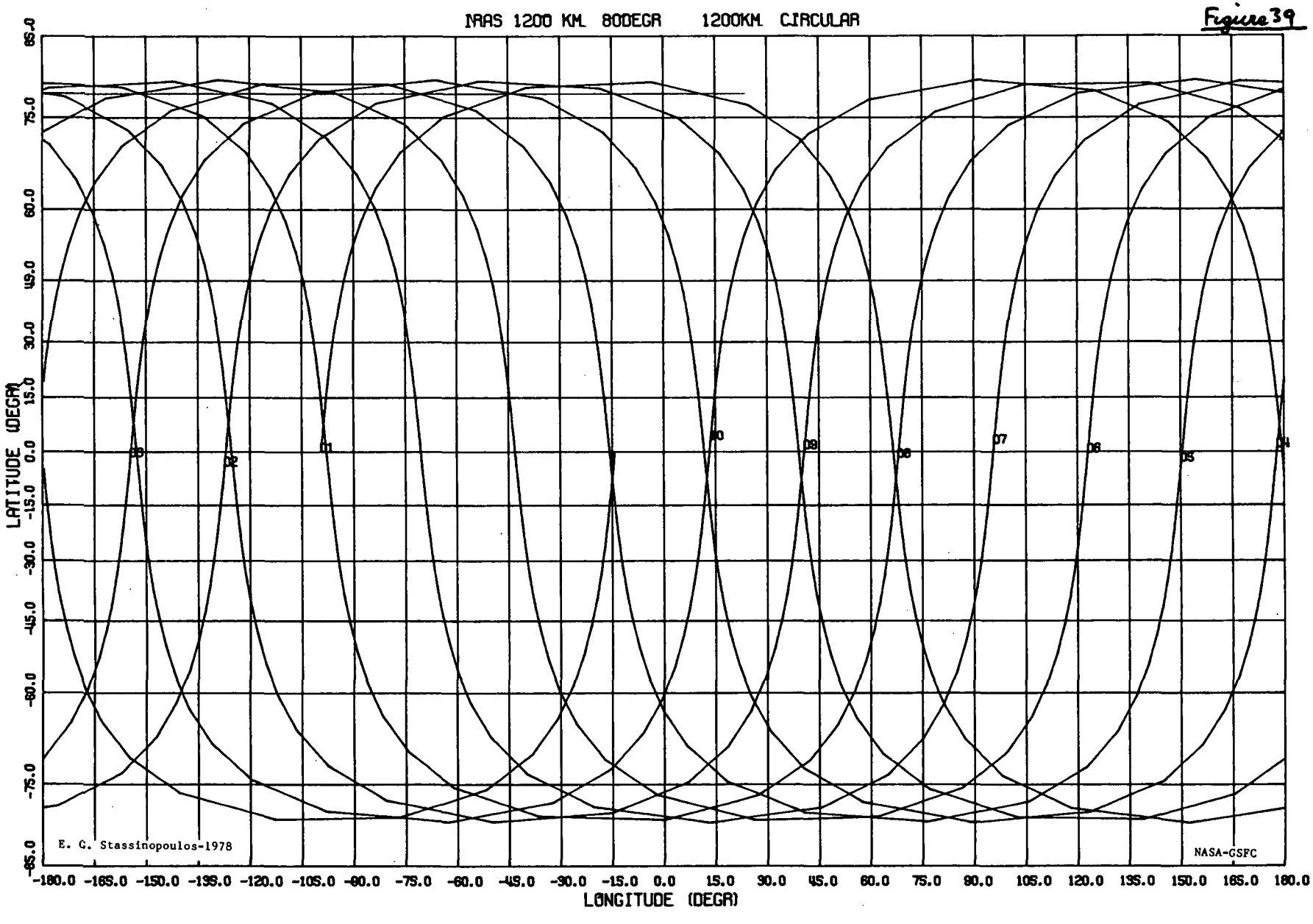

IRAS 900 KM 99DEGR 900KM CIRCULAR
LATITUDE (DEGR)
85.0
75.0
60.0
45.0
30.0
15.0
0.0
-15.0
-30.0
-45.0
-60.0
-75.0
-85.0
10
09
08
07
06
05
04
03
02
01
E. G. Stassinopoulos-1978
NASA-GSFC
-180.0 -165.0 -150.0 -135.0 -120.0 -105.0 -90.0 -75.0 -60.0 -45.0 -30.0 -15.0 0.0 15.0 30.0 45.0 60.0 75.0 90.0 105.0 120.0 135.0 150.0 165.0 180.0
LONGITUDE (DEGR)

Figure 39


NRAS 1200 KM 80DEGR 1200KM CIRCULAR
LATITUDE (DEGR)
85.0
75.0
60.0
45.0
30.0
15.0
0.0
-15.0
-30.0
-45.0
-60.0
-75.0
-85.0
-180.0 -165.0 -150.0 -135.0 -120.0 -105.0 -90.0 -75.0 -60.0 -45.0 -30.0 -15.0 0.0 15.0 30.0 45.0 60.0 75.0 90.0 105.0 120.0 135.0 150.0 165.0 180.0
LONGITUDE (DEGR)
E. G. Stassinopoulos-1978
NASA-GSFC

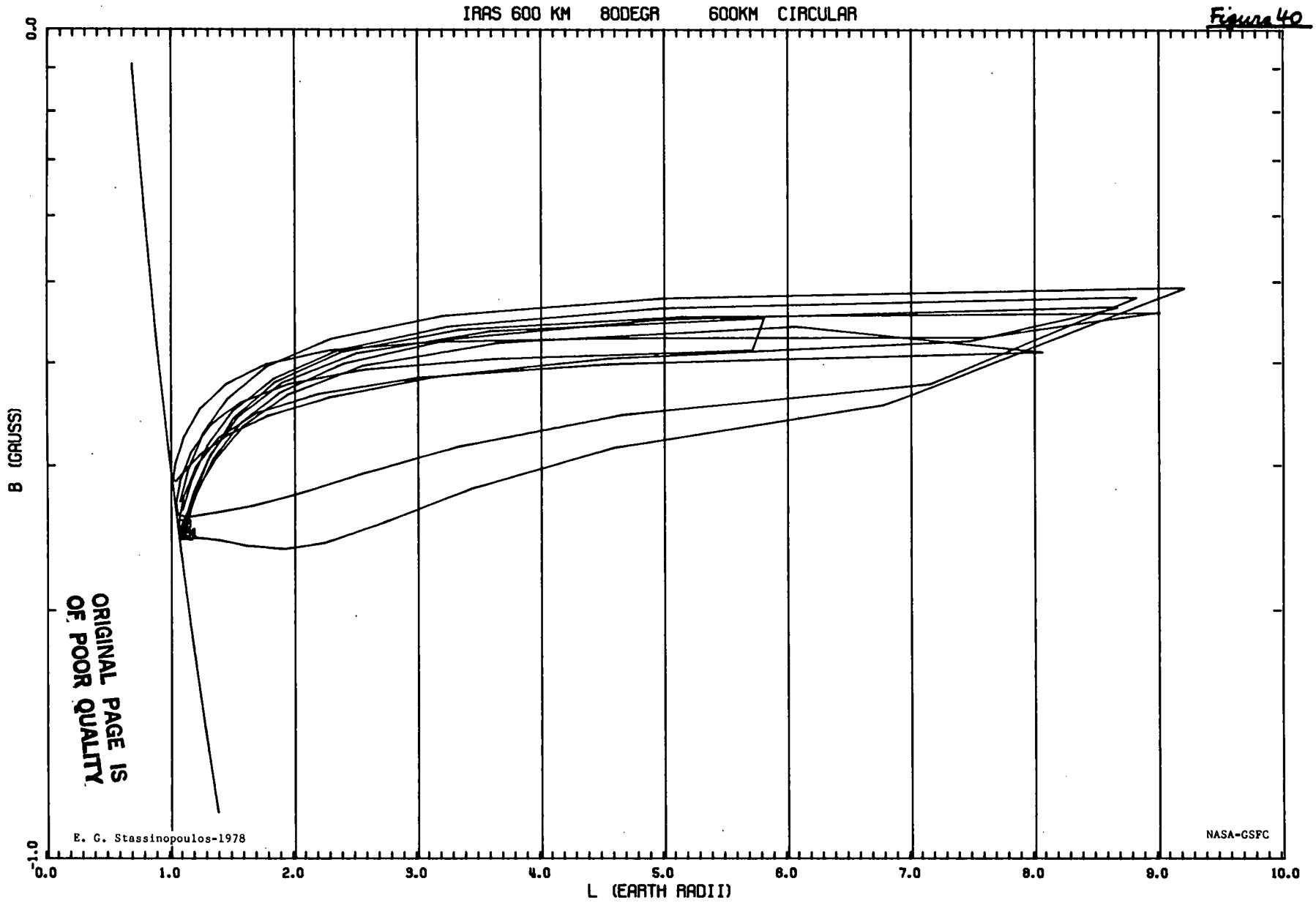

IRAS 600 KM 80DEGR 600KM CIRCULAR
Figure 40
B (GAUSS)
0.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
9.0
10.0
L (EARTH RADII)
E. G. Stassinopoulos-1978
NASA-GSFC
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Figure 41

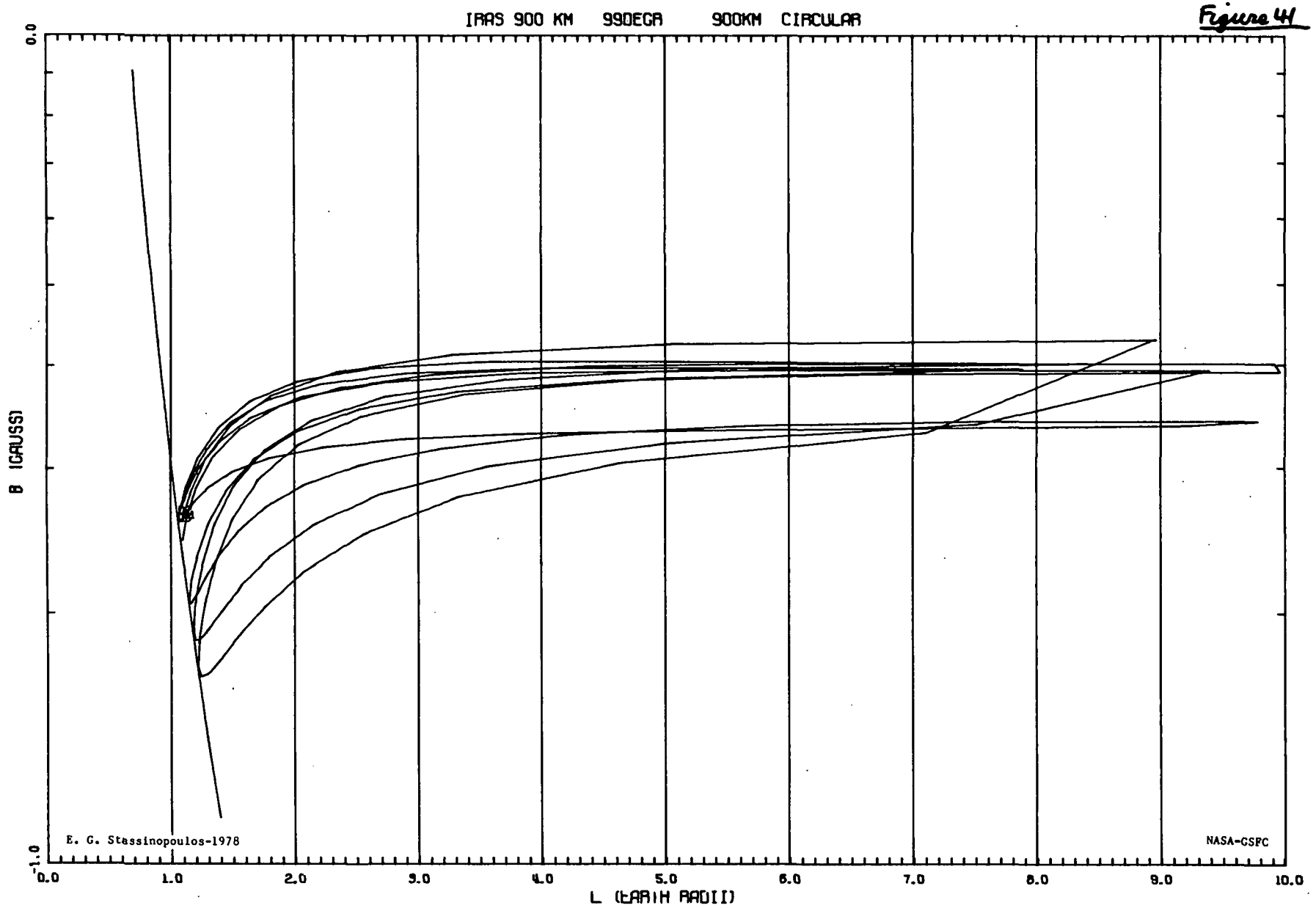

IRAS 900 KM 99DEGR 900KM CIRCULAR
B (GAUSS)
0.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
9.0
10.0
L (EARTH RADII)
E. G. Stassinopoulos-1978
NASA-GSFC

Figure 42

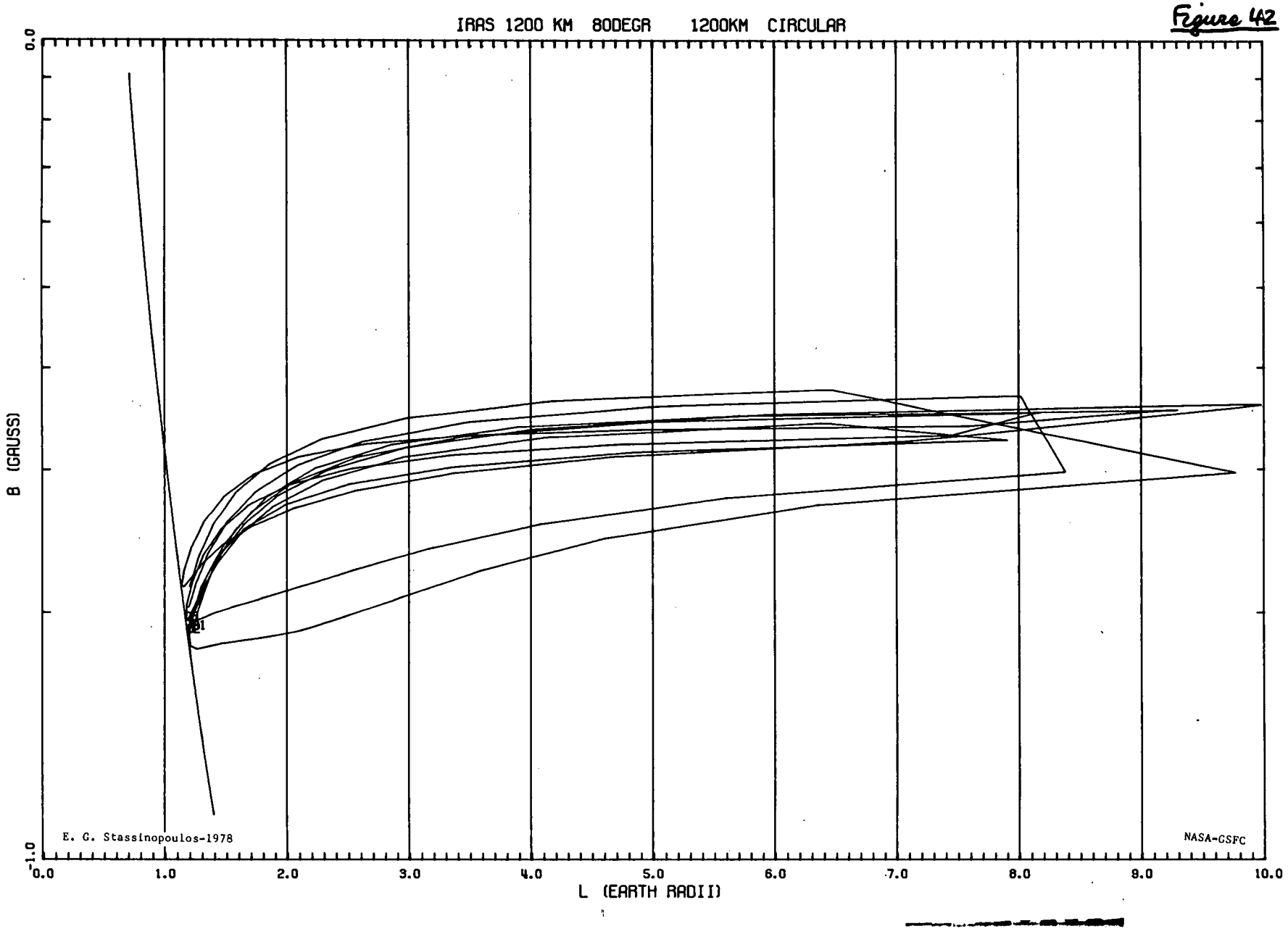

IRAS 1200 KM 80DEGR 1200KM CIRCULAR
B (GAUSS)
0.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
9.0
10.0
L (EARTH RADII)
E. G. Stassinopoulos-1978
NASA-GSFC

Figure 43

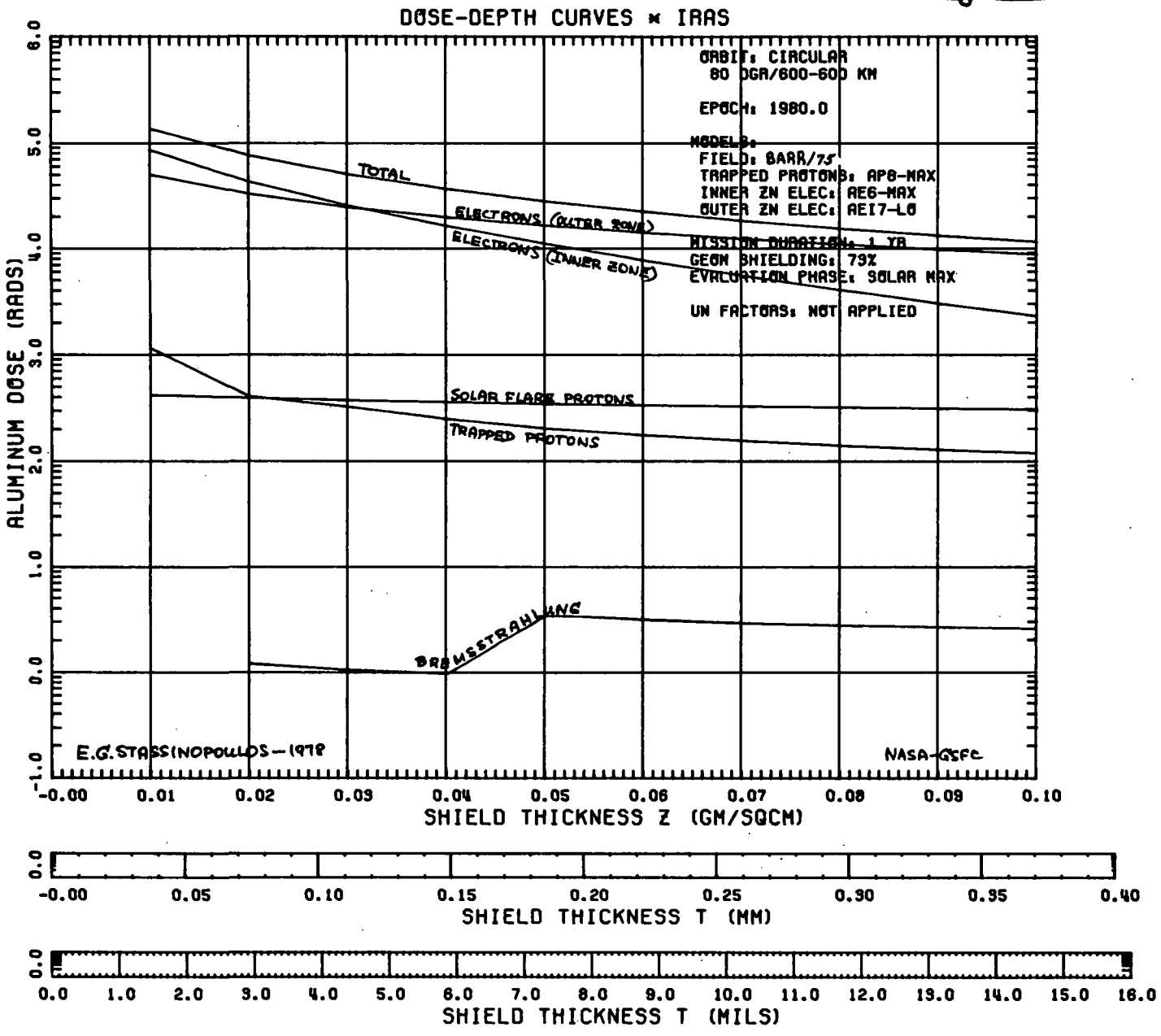
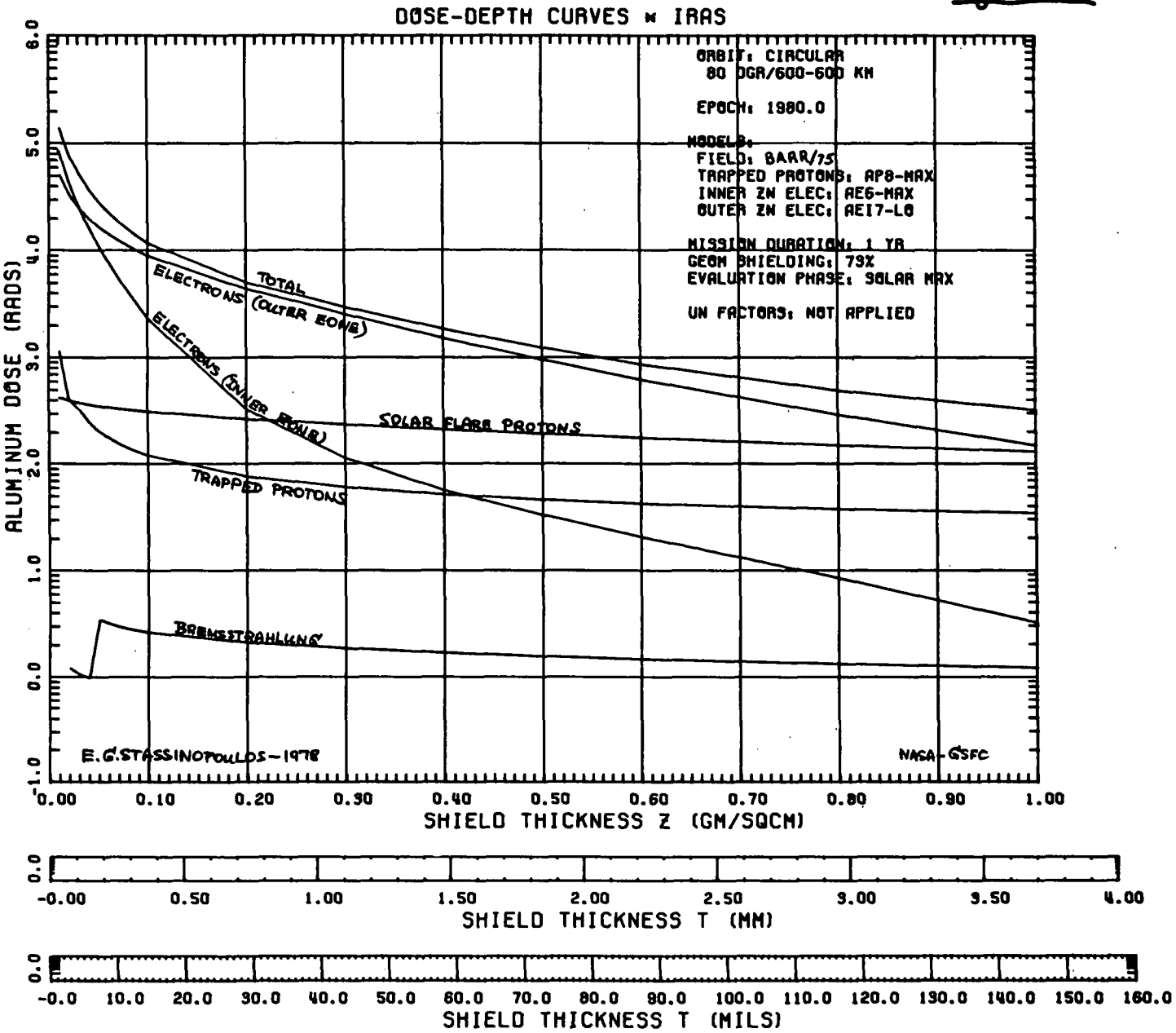

DOSE-DEPTH CURVES * IRAS
ORBIT: CIRCULAR
80 DGR/600-600 KM
EPOCH: 1980.0
MODELS:
FIELD: BARR/75
TRAPPED PROTONS: AP8-MAX
INNER ZN ELEC: AE6-MAX
OUTER ZN ELEC: AE17-L0
MISSION DURATION: 1 YR
GEOM SHIELDING: 79%
EVALUATION PHASE: SOLAR MAX
UN FACTORS: NOT APPLIED
TOTAL
ELECTRONS (OUTER ZONE)
ELECTRONS (INNER ZONE)
SOLAR FLARE PROTONS
TRAPPED PROTONS
BREMSSTRAHLUNG
ALUMINUM DOSE (RADS)
6.0
5.0
4.0
3.0
2.0
1.0
0.0
-1.0
-0.00
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0.09
0.10
SHIELD THICKNESS Z (GM/SQCM)
E.G.STASSINOPOULOS-1978
NASA-GSFC
0.0
-0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.40
SHIELD THICKNESS T (MM)
0.0
0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
9.0
10.0
11.0
12.0
13.0
14.0
15.0
16.0
SHIELD THICKNESS T (MILS)

Figure 44



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Figure 45

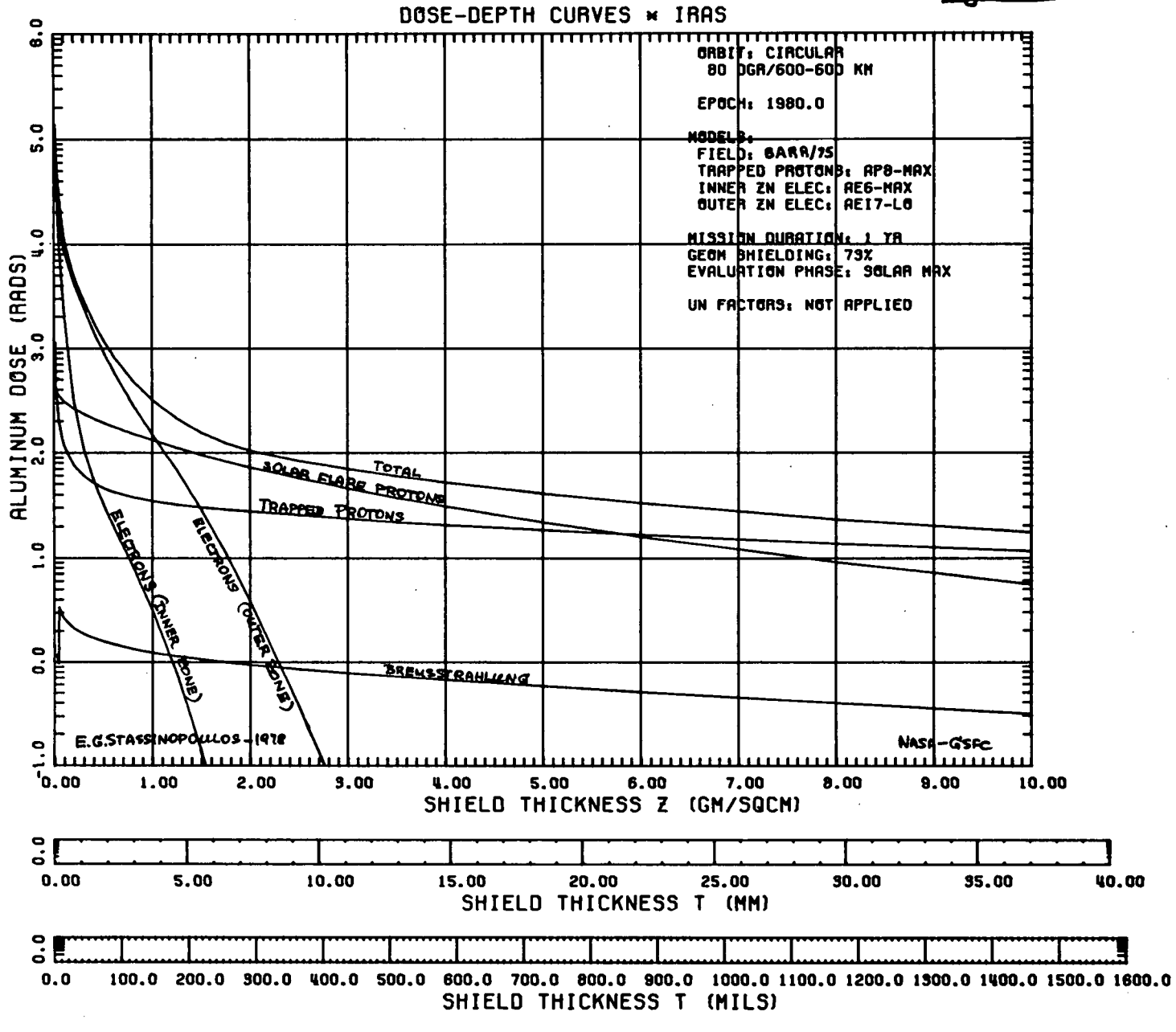
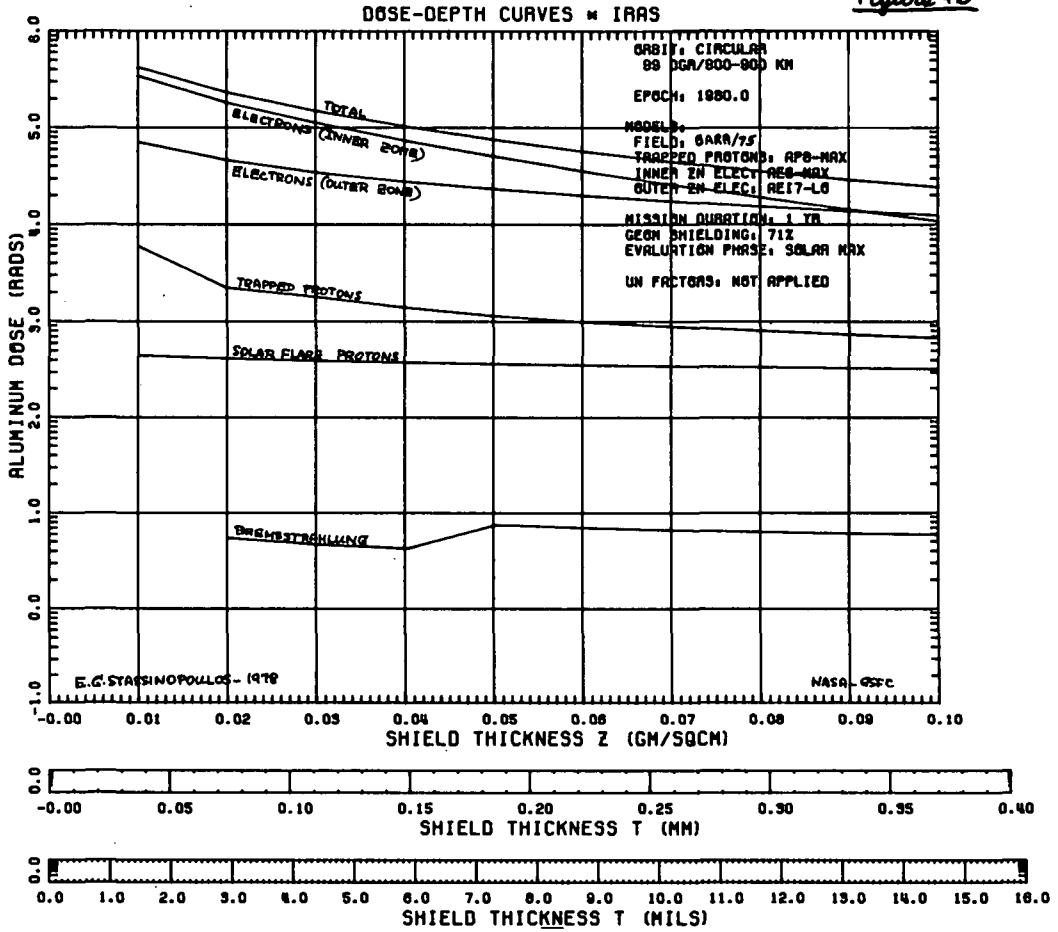
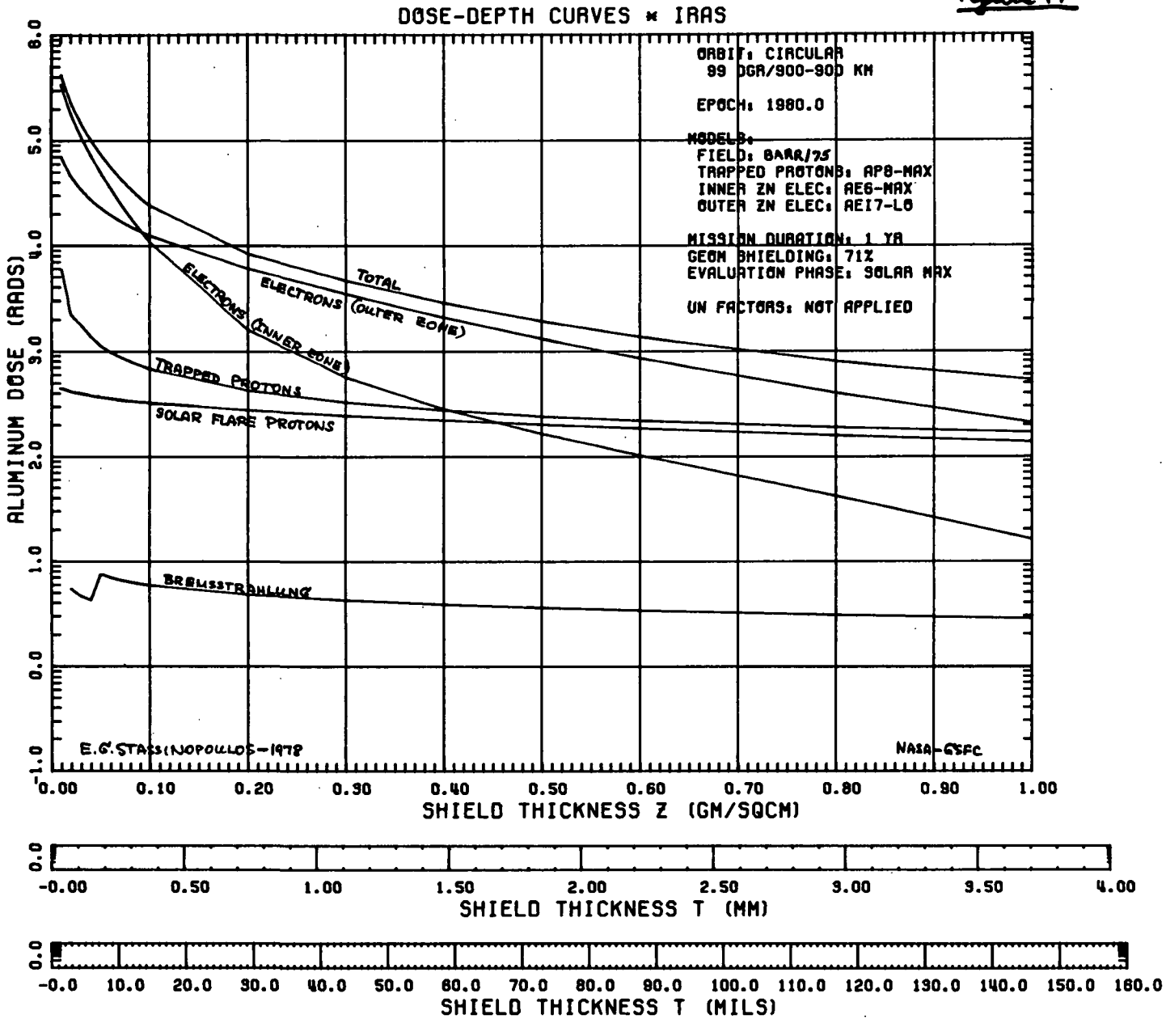

DOSE-DEPTH CURVES × IRAS
ORBIT: CIRCULAR
80 DGR/600-600 KM
EPOCH: 1980.0
MODELS:
FIELD: GARR/75
TRAPPED PROTONS: AP8-MAX
INNER ZN ELEC: AE6-MAX
OUTER ZN ELEC: AE17-L0
MISSION DURATION: 1 YR
GEOM SHIELDING: 73%
EVALUATION PHASE: SOLAR MAX
UN FACTORS: NOT APPLIED
ALUMINUM DOSE (RADS)
TOTAL
SOLAR FLARE PROTONS
TRAPPED PROTONS
ELECTRONS (INNER ZONE)
ELECTRONS (OUTER ZONE)
BREMSSTRAHLUNG
E.G.STASSINOPOULOS-1978
NASA-GSFC
SHIELD THICKNESS Z (GM/SQCM)
SHIELD THICKNESS T (MM)
SHIELD THICKNESS T (MILS)

Figure 46



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Figure 47



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Figure 48

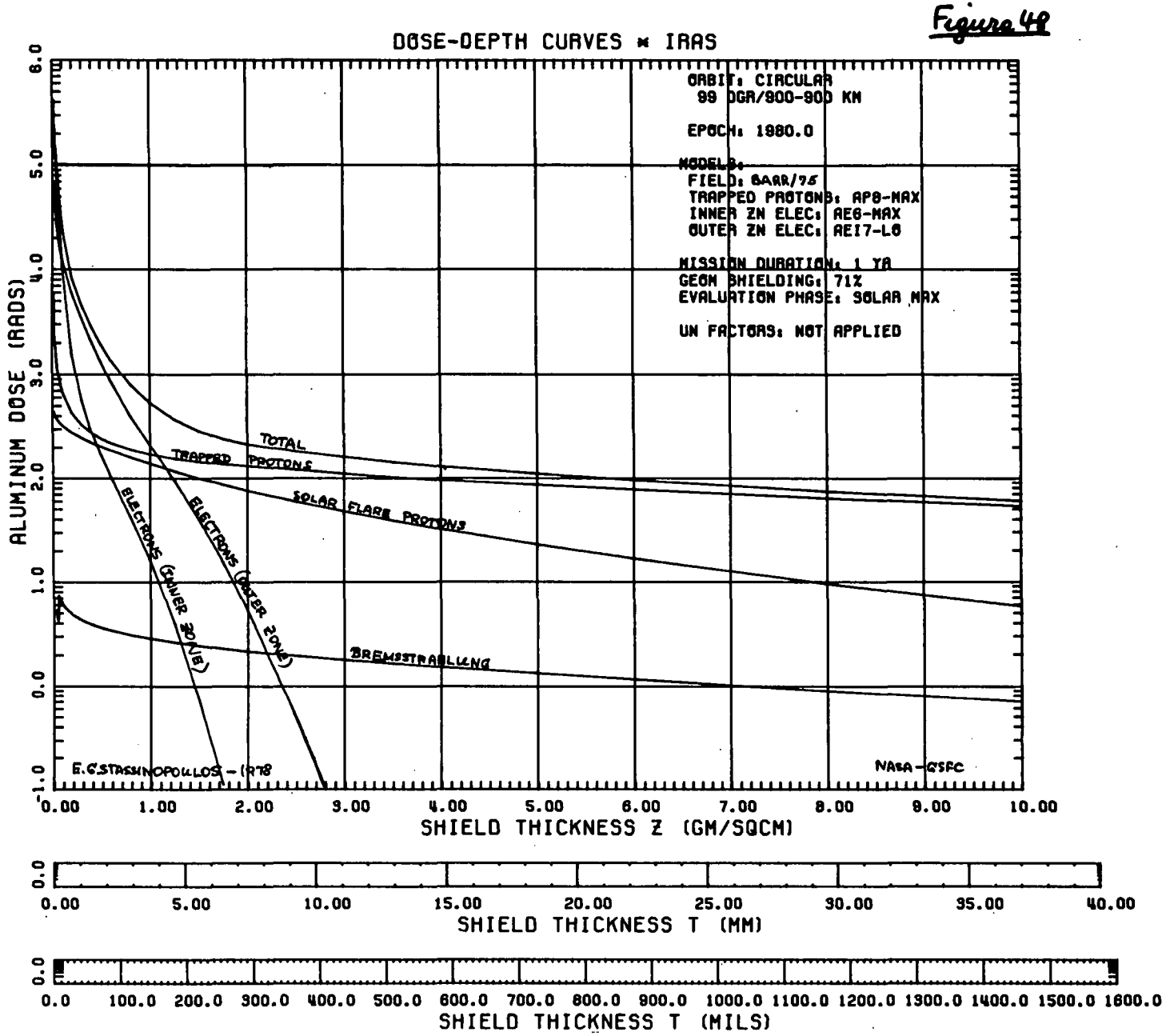

DOSE-DEPTH CURVES * IRAS
ORBIT: CIRCULAR
99 DGR/900-900 KM
EPOCH: 1980.0
MODELS:
FIELD: GARR/75
TRAPPED PROTONS: AP8-MAX
INNER ZN ELEC: AE6-MAX
OUTER ZN ELEC: AE7-L6
MISSION DURATION: 1 YR
GEOM SHIELDING: 71%
EVALUATION PHASE: SOLAR MAX
UN FACTORS: NOT APPLIED
TOTAL
TRAPPED PROTONS
SOLAR FLARE PROTONS
ELECTRONS (INNER ZONE)
ELECTRONS (OUTER ZONE)
BREMSSTRAHLUNG
E.G.STASSINOPOULOS - 1978
NASA-GSFC
ALUMINUM DOSE (RADS)
SHIELD THICKNESS Z (GM/SQCM)
SHIELD THICKNESS T (MM)
SHIELD THICKNESS T (MILS)

Figure 49

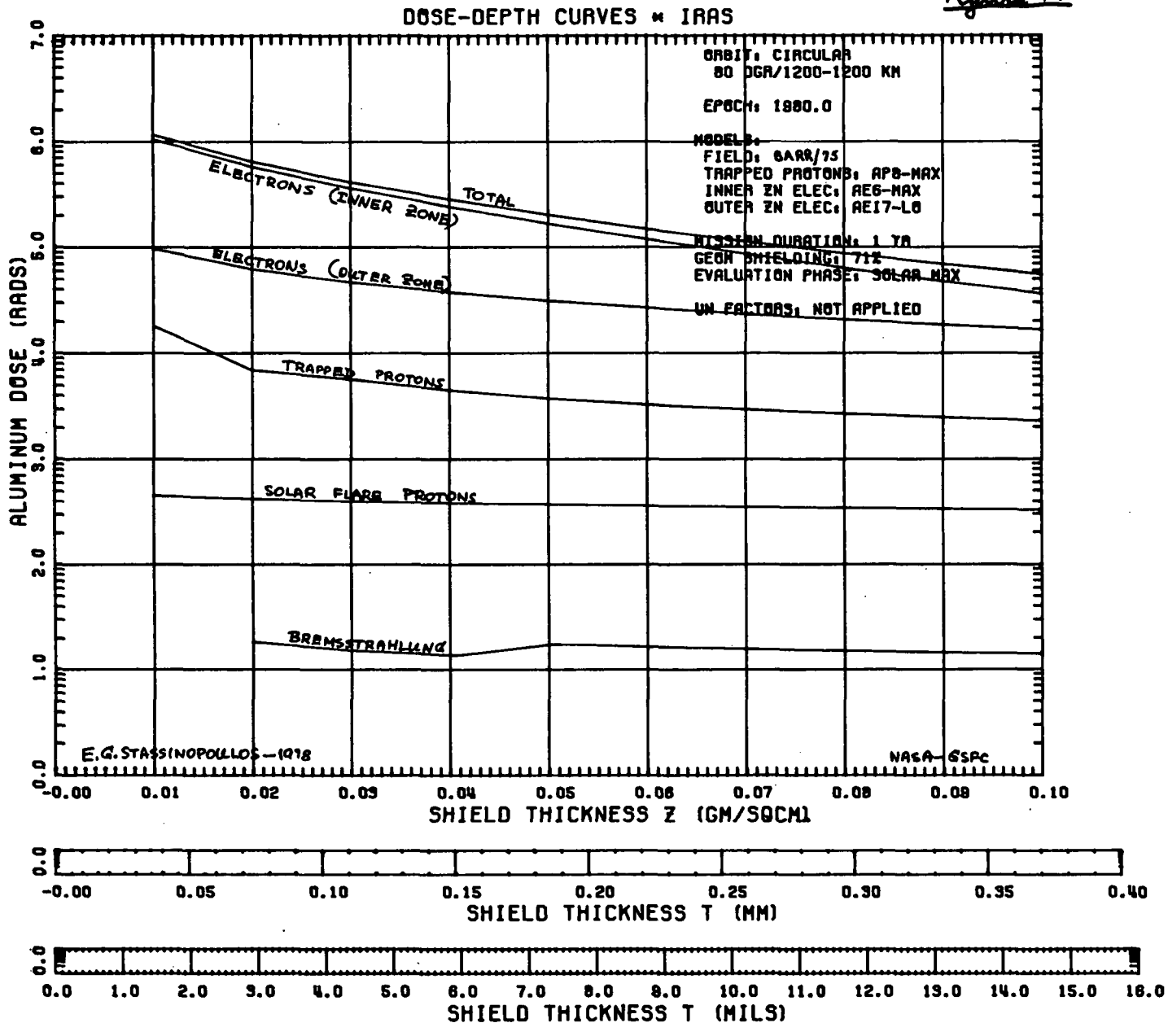

DOSE-DEPTH CURVES « IRAS
ORBIT: CIRCULAR
80 DGR/1200-1200 KM
EPOCH: 1980.0
MODELS:
FIELD: GARR/75
TRAPPED PROTONS: AP8-MAX
INNER ZN ELEC: AE6-MAX
OUTER ZN ELEC: AE7-L8
MISSION DURATION: 1 YR
GEOM SHIELDING: 71%
EVALUATION PHASE: SOLAR MAX
QN FACTORS: NOT APPLIED
ELECTRONS (INNER ZONE)
TOTAL
ELECTRONS (OUTER ZONE)
TRAPPED PROTONS
SOLAR FLARE PROTONS
BREMSSTRAHLUNG
E.G. STASSINOPOULOS-1978
NASA-GSFC
ALUMINUM DOSE (RADS)
0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
-0.00
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0.09
0.10
SHIELD THICKNESS Z (GM/SQCM)
0.0
-0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.40
SHIELD THICKNESS T (MM)
0.0
0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
9.0
10.0
11.0
12.0
13.0
14.0
15.0
16.0
SHIELD THICKNESS T (MILS)

Figure 50

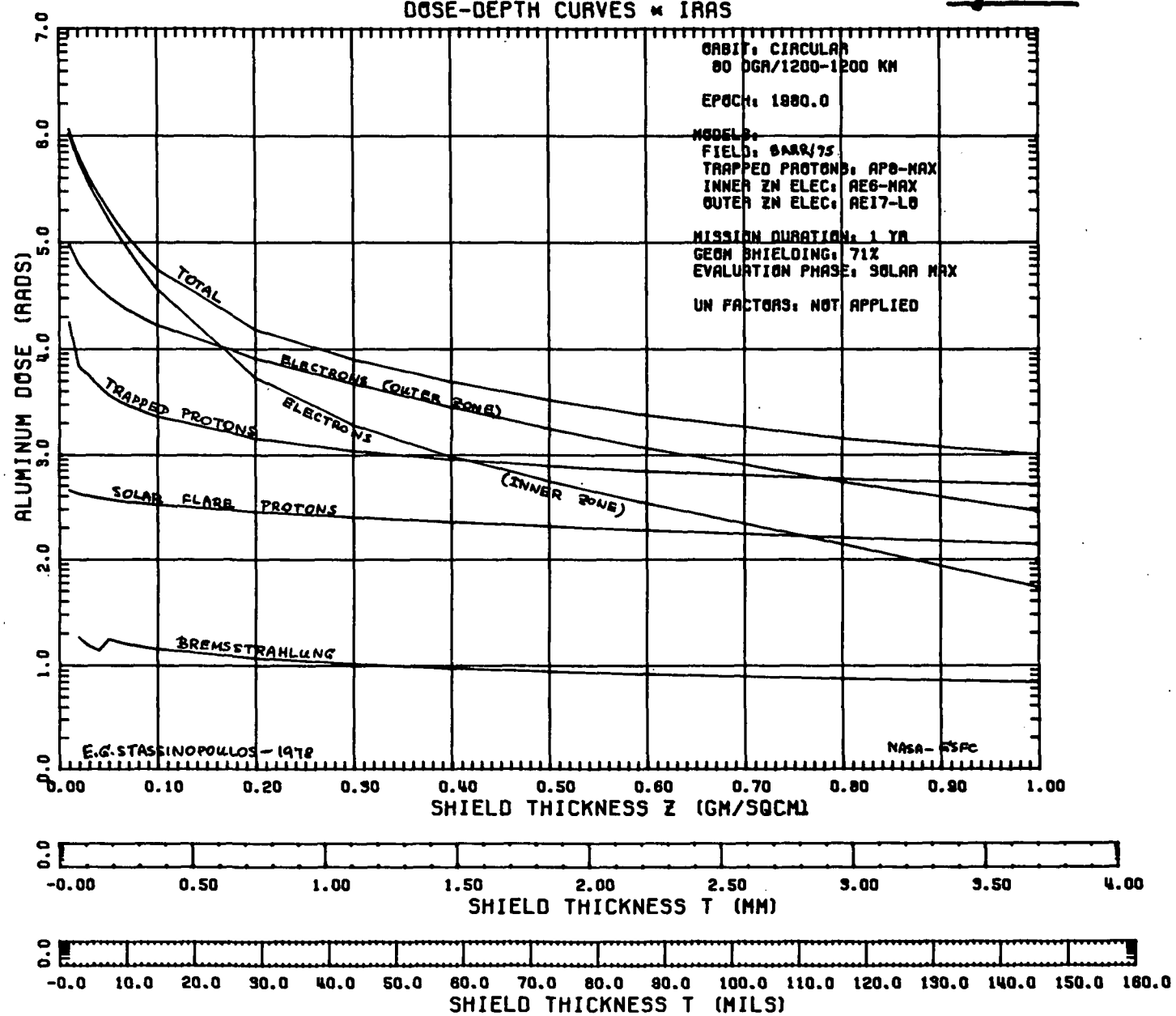
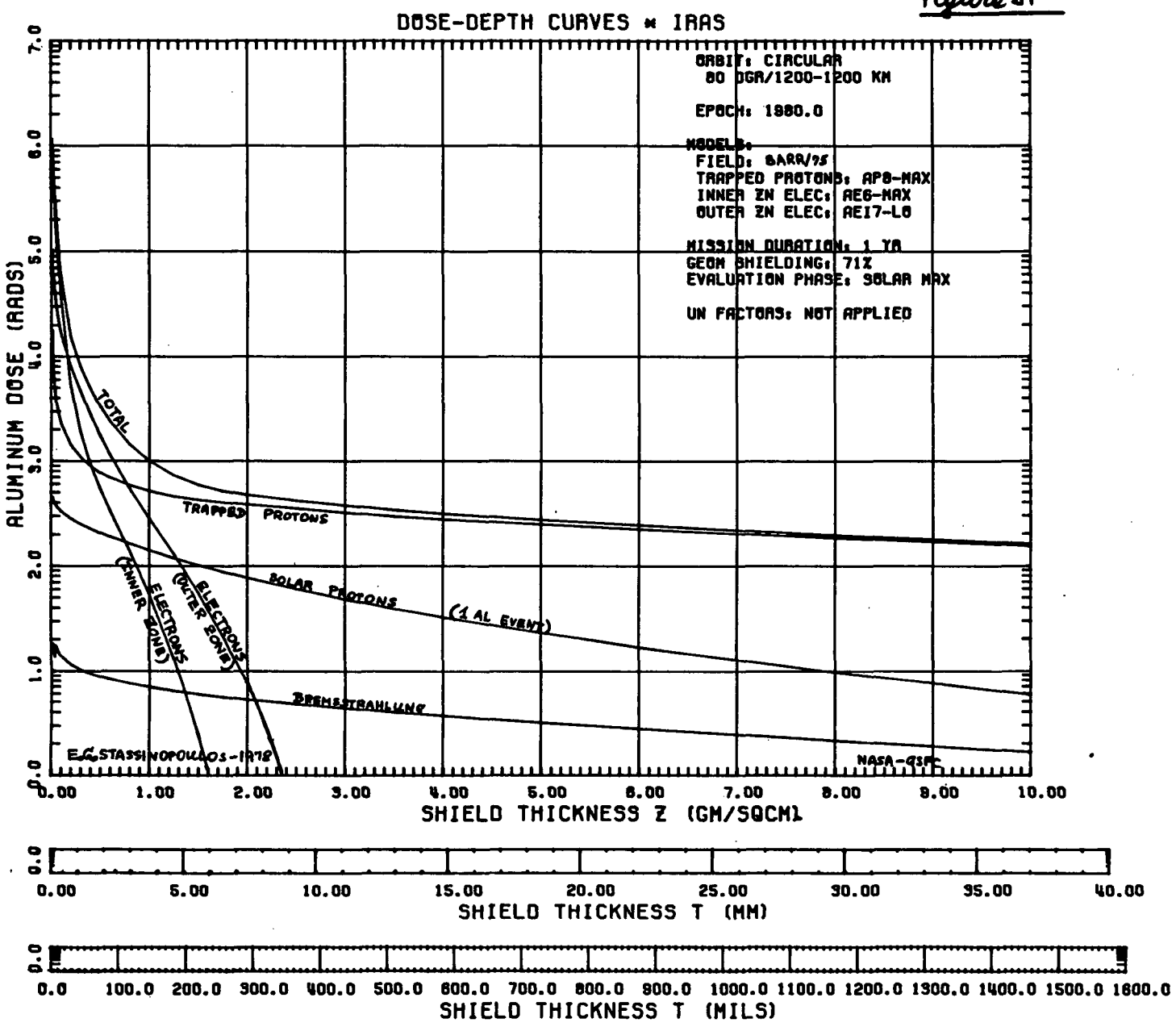

DOSE-DEPTH CURVES @ IRAS
ORBIT: CIRCULAR
80 DGR/1200-1200 KM
EPOCH: 1980.0
MODELS:
FIELD: BARR/75
TRAPPED PROTONS: AP8-MAX
INNER ZN ELEC: AE6-MAX
OUTER ZN ELEC: AE17-L0
MISSION DURATION: 1 YR
GEOM SHIELDING: 71%
EVALUATION PHASE: SOLAR MAX
UN FACTORS: NOT APPLIED
TOTAL
ELECTRONS (OUTER ZONE)
TRAPPED PROTONS
ELECTRONS
(INNER ZONE)
SOLAR FLARE PROTONS
BREMSSTRAHLUNG
E.G.STASSINOPOULOS-1978
NASA-GSFC
ALUMINUM DOSE (RADS)
SHIELD THICKNESS Z (GM/SQCM)
SHIELD THICKNESS T (MM)
SHIELD THICKNESS T (MILS)

Figure 51



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Figure 52

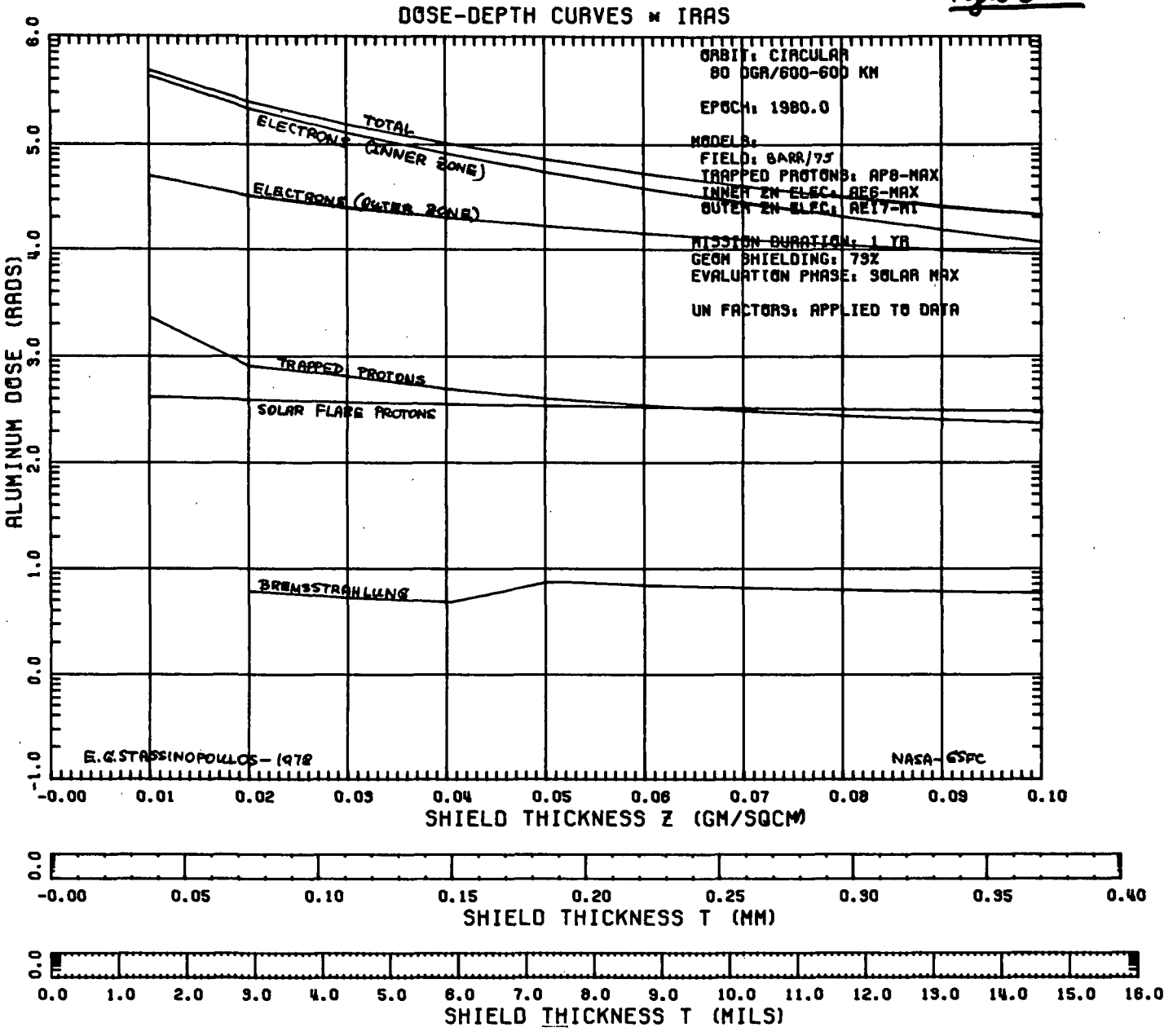

DOSE-DEPTH CURVES × IRAS
ORBIT: CIRCULAR
80 DGR/600-600 KM
EPOCH: 1980.0
MODELS:
FIELD: BARR/75
TRAPPED PROTONS: AP8-MAX
INNER ZN ELEC: AE6-MAX
OUTER ZN ELEC: AE7-MI
MISSION DURATION: 1 YR
GEOM SHIELDING: 79%
EVALUATION PHASE: SOLAR MAX
UN FACTORS: APPLIED TO DATA
TOTAL
ELECTRONS (INNER ZONE)
ELECTRONS (OUTER ZONE)
TRAPPED PROTONS
SOLAR FLARE PROTONS
BREMSSTRAHLUNG
E.G.STASSINOPOULOS- 1978
NASA-GSFC
ALUMINUM DOSE (RADS)
6.0
5.0
4.0
3.0
2.0
1.0
0.0
-1.0
-0.00
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0.09
0.10
SHIELD THICKNESS Z (GM/SQCM)
0.0
-0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.40
SHIELD THICKNESS T (MM)
0.0
0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
9.0
10.0
11.0
12.0
13.0
14.0
15.0
16.0
SHIELD THICKNESS T (MILS)

Figure 13

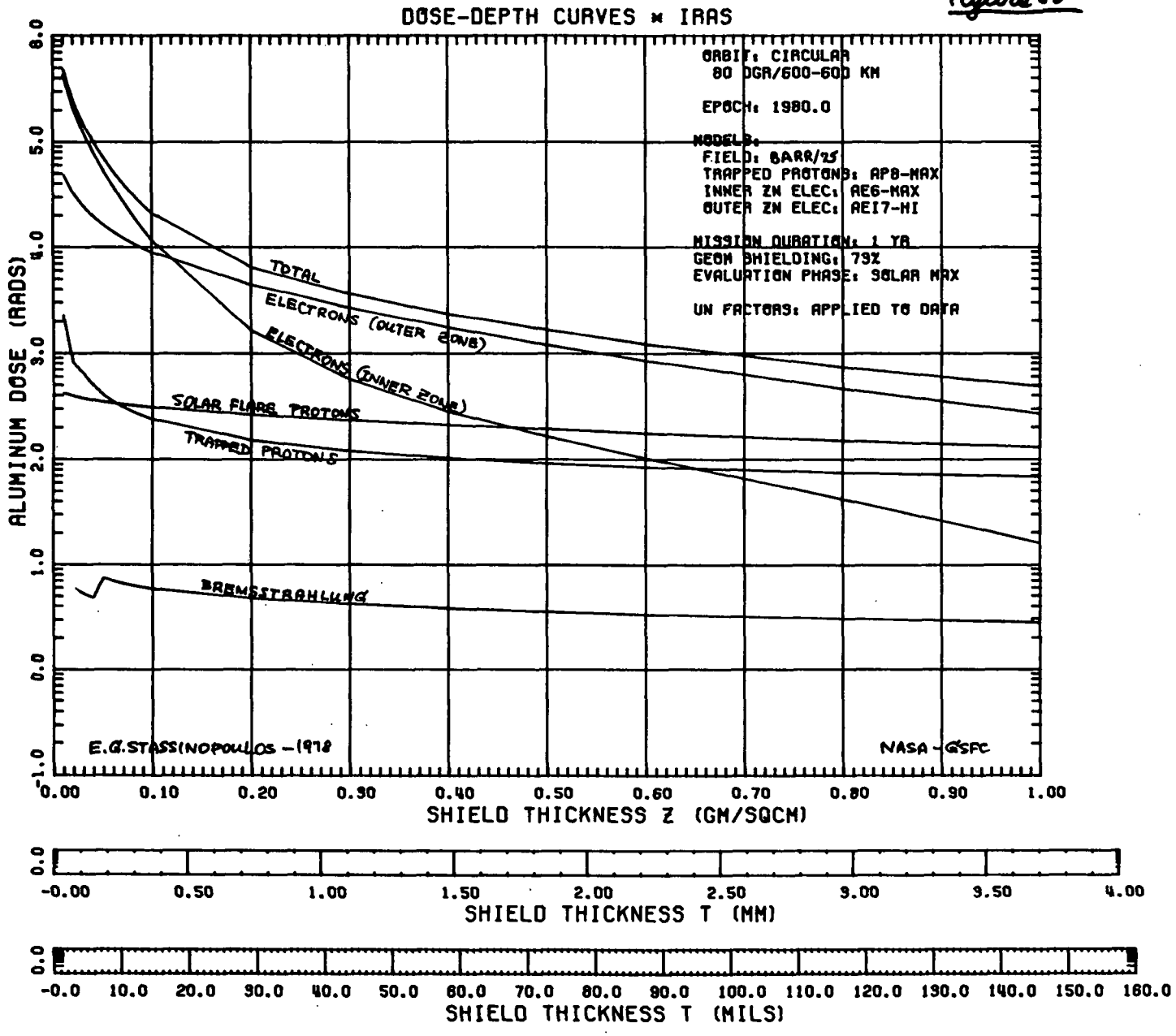
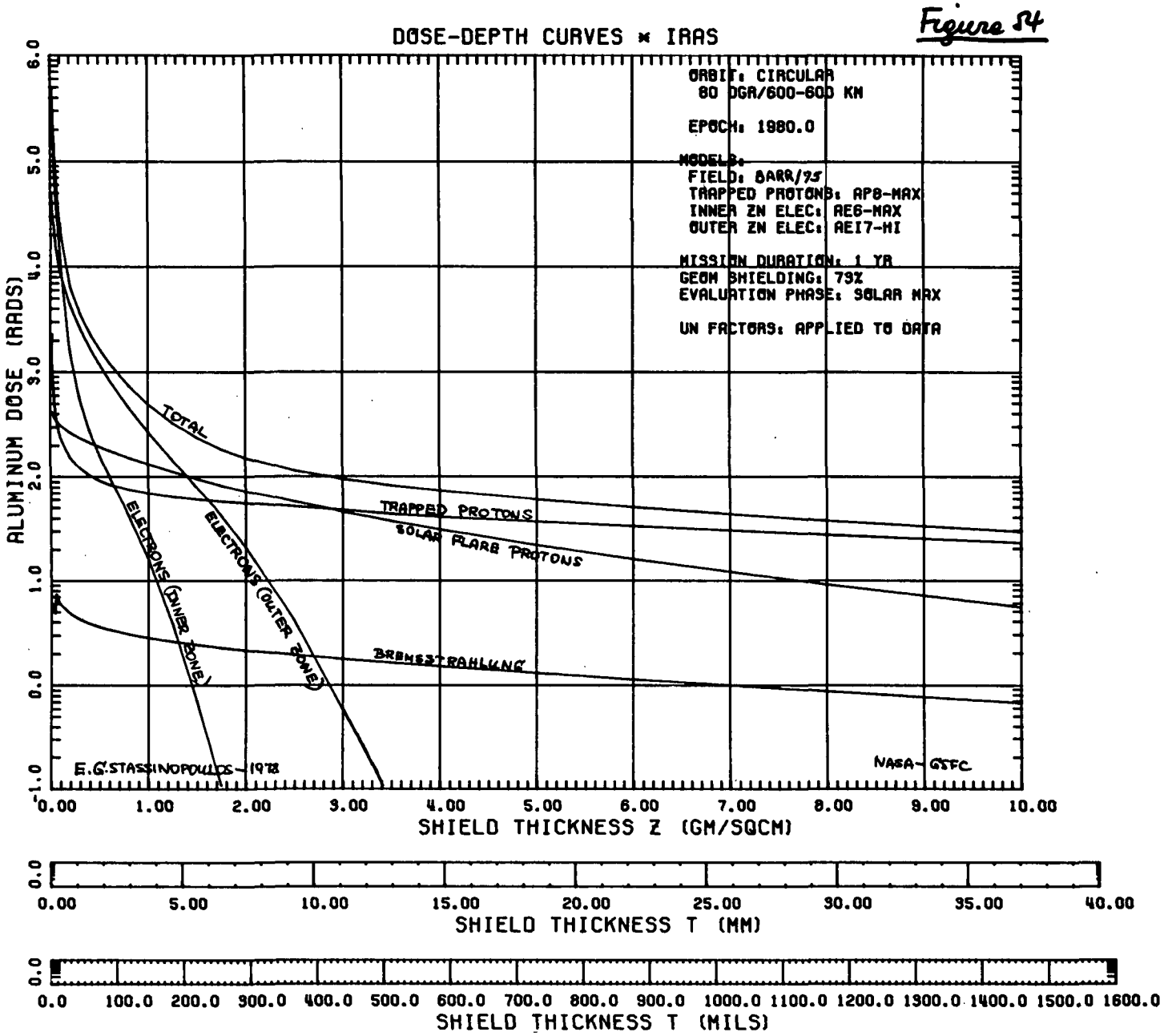

DOSE-DEPTH CURVES * IRAS
ORBIT: CIRCULAR
80 DGR/600-600 KM
EPOCH: 1980.0
MODELS:
FIELD: BARR/75
TRAPPED PROTONS: AP8-MAX
INNER ZN ELEC: AE6-MAX
OUTER ZN ELEC: AEI7-HI
MISSION DURATION: 1 YR
GEOM SHIELDING: 79%
EVALUATION PHASE: SOLAR MAX
UN FACTORS: APPLIED TO DATA
TOTAL
ELECTRONS (OUTER ZONE)
ELECTRONS (INNER ZONE)
SOLAR FLARE PROTONS
TRAPPED PROTONS
BREMSSTRAHLUNG
E.G.STASSINOPOULOS - 1978
NASA - GSFC
ALUMINUM DOSE (RADS)
8.0
5.0
4.0
3.0
2.0
1.0
0.0
-1.0
0.00
0.10
0.20
0.30
0.40
0.50
0.60
0.70
0.80
0.90
1.00
SHIELD THICKNESS Z (GM/SQCM)
0.0
-0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
4.00
SHIELD THICKNESS T (MM)
0.0
-0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
80.0
90.0
100.0
110.0
120.0
130.0
140.0
150.0
160.0
SHIELD THICKNESS T (MILS)

Figure 54



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Figure 55

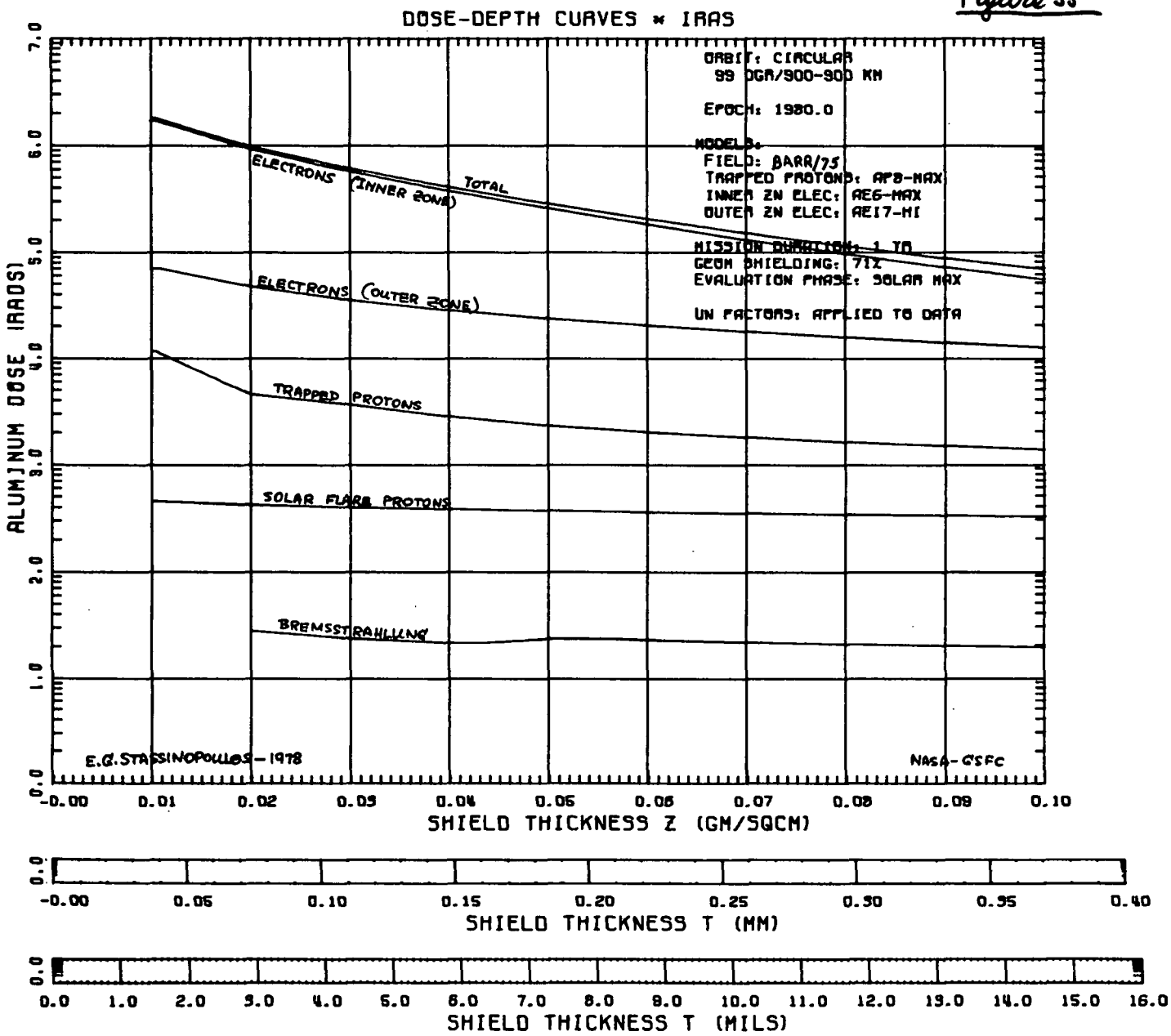

DOSE-DEPTH CURVES * IRAS
ORBIT: CIRCULAR
99 DGR/900-900 KM
EPOCH: 1980.0
MODELS:
FIELD: BARR/75
TRAPPED PROTONS: AP8-MAX
INNER ZN ELEC: AE6-MAX
OUTER ZN ELEC: AE17-MI
MISSION DURATION: 1 YR
GEOM SHIELDING: 71%
EVALUATION PHASE: SOLAR MAX
UN FACTORS: APPLIED TO DATA
ELECTRONS (INNER ZONE)
TOTAL
ELECTRONS (OUTER ZONE)
TRAPPED PROTONS
SOLAR FLARE PROTONS
BREMSSTRAHLUNG
E.G.STASSINOPOULOS-1978
NASA-GSFC
ALUMINUM DOSE (RADS)
SHIELD THICKNESS Z (GM/SQCM)
SHIELD THICKNESS T (MM)
SHIELD THICKNESS T (MILS)

Figure 56

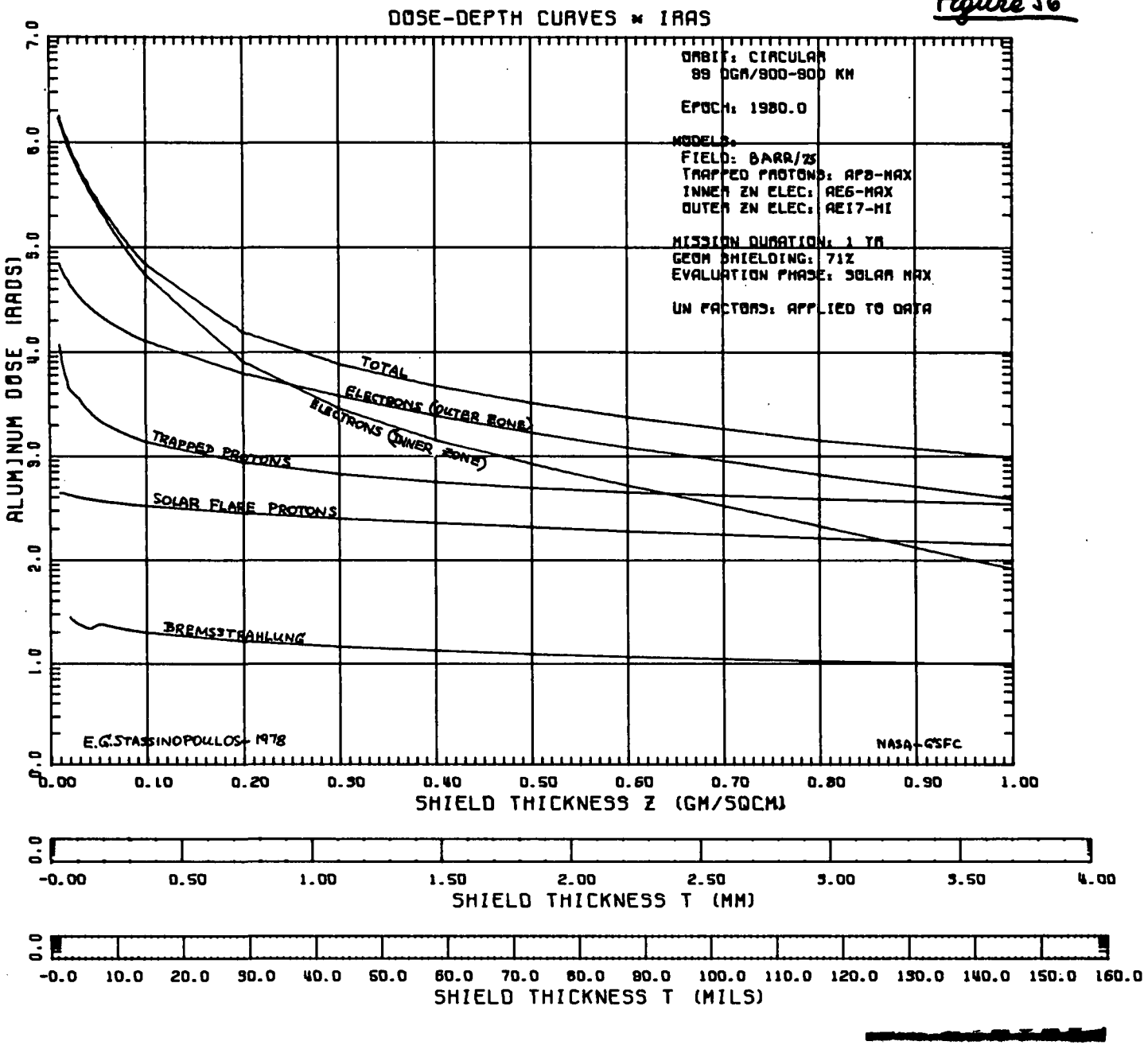

DOSE-DEPTH CURVES * IRAS
ORBIT: CIRCULAR
89 DGR/900-900 KM
EPOCH: 1980.0
MODELS:
FIELD: BARR/75
TRAPPED PROTONS: AP8-MAX
INNER ZN ELEC: AE6-MAX
OUTER ZN ELEC: AE7-HI
MISSION DURATION: 1 YR
GEOM SHIELDING: 71%
EVALUATION PHASE: SOLAR MAX
UN FACTORS: APPLIED TO DATA
TOTAL
ELECTRONS (OUTER ZONE)
ELECTRONS (INNER ZONE)
TRAPPED PROTONS
SOLAR FLARE PROTONS
BREMSSTRAHLUNG
E.G.STASSINOPOULOS- 1978
NASA-GSFC
ALUMINUM DOSE (RADS)
SHIELD THICKNESS Z (GM/SQCM)
SHIELD THICKNESS T (MM)
SHIELD THICKNESS T (MILS)

Figure 57

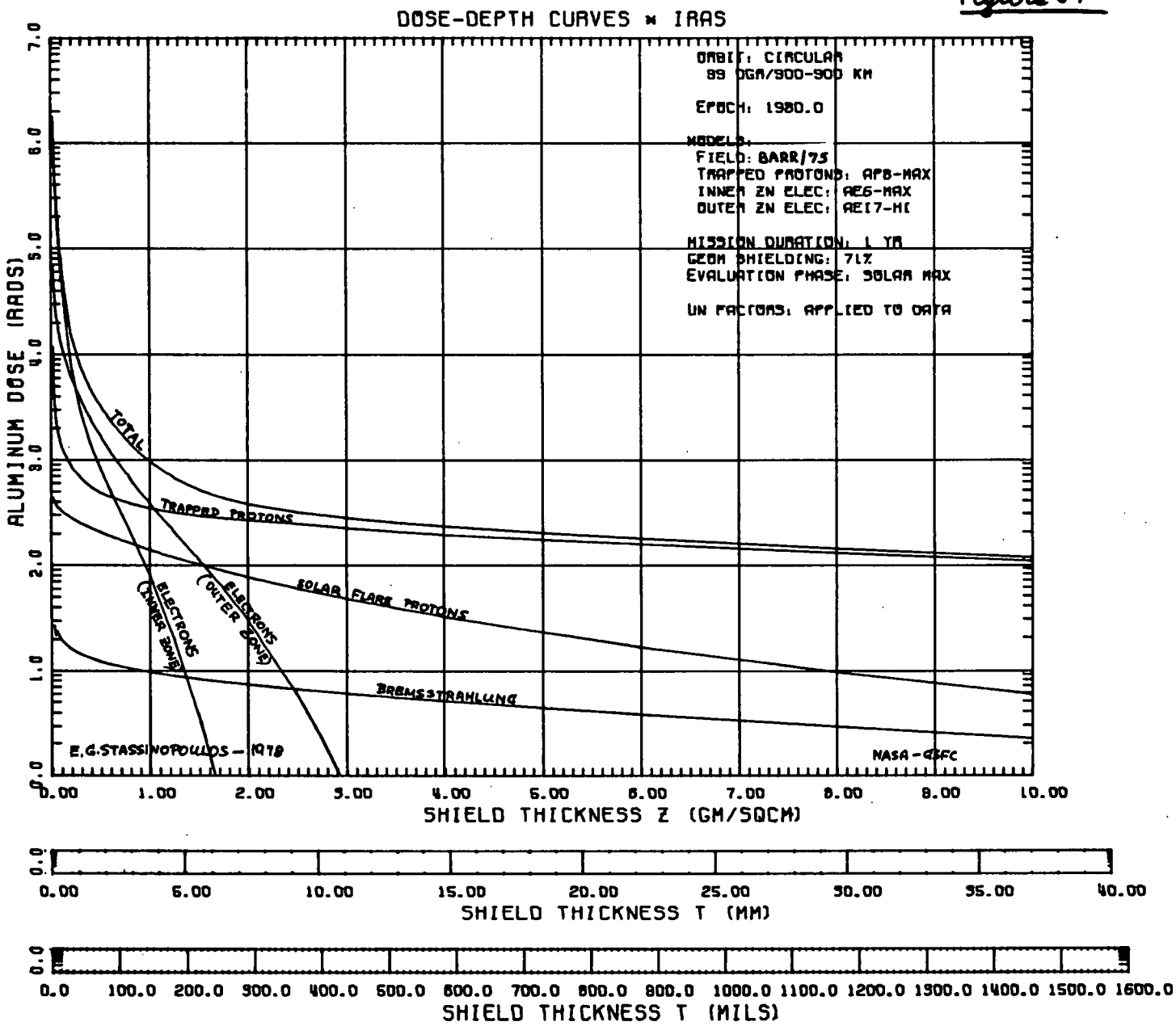
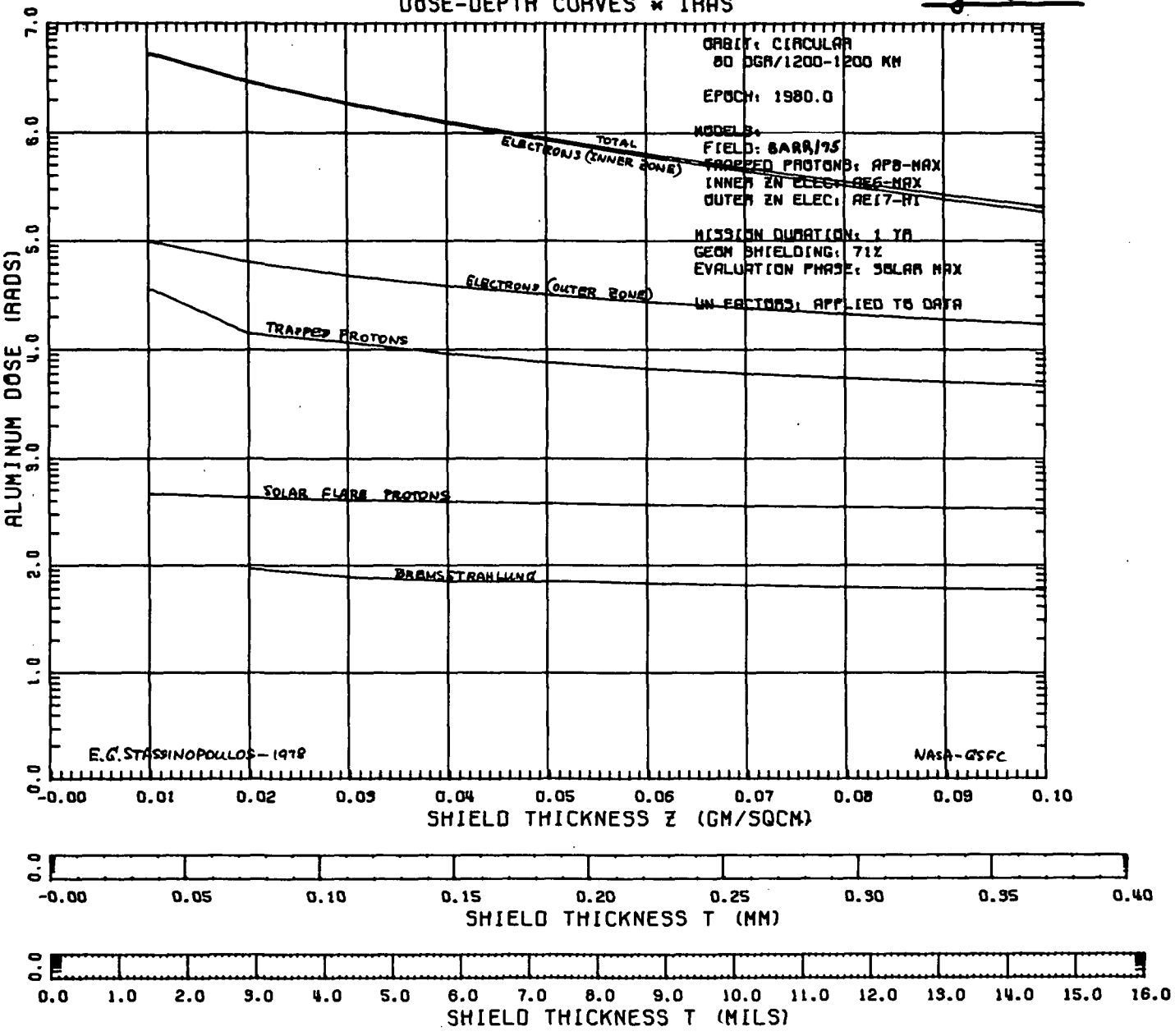

DOSE-DEPTH CURVES * IRAS
ORBIT: CIRCULAR
89 DGR/900-900 KM
EPOCH: 1980.0
MODELS:
FIELD: BARR/75
TRAPPED PROTONS: APB-MAX
INNER ZN ELEC: AE6-MAX
OUTER ZN ELEC: AE17-MI
MISSION DURATION: 1 YR
GEOM SHIELDING: 71%
EVALUATION PHASE: SOLAR MAX
UN FACTORS: APPLIED TO DATA
ALUMINUM DOSE (RADS)
TOTAL
TRAPPED PROTONS
SOLAR FLARE PROTONS
ELECTRONS (INNER ZONE)
ELECTRONS (OUTER ZONE)
BREMSSTRAHLUNG
E.G.STASSINOPOULOS - 1978
NASA-GSFC
SHIELD THICKNESS Z (GM/SQCM)
SHIELD THICKNESS T (MM)
SHIELD THICKNESS T (MILS)

Figure 58



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Figure 59

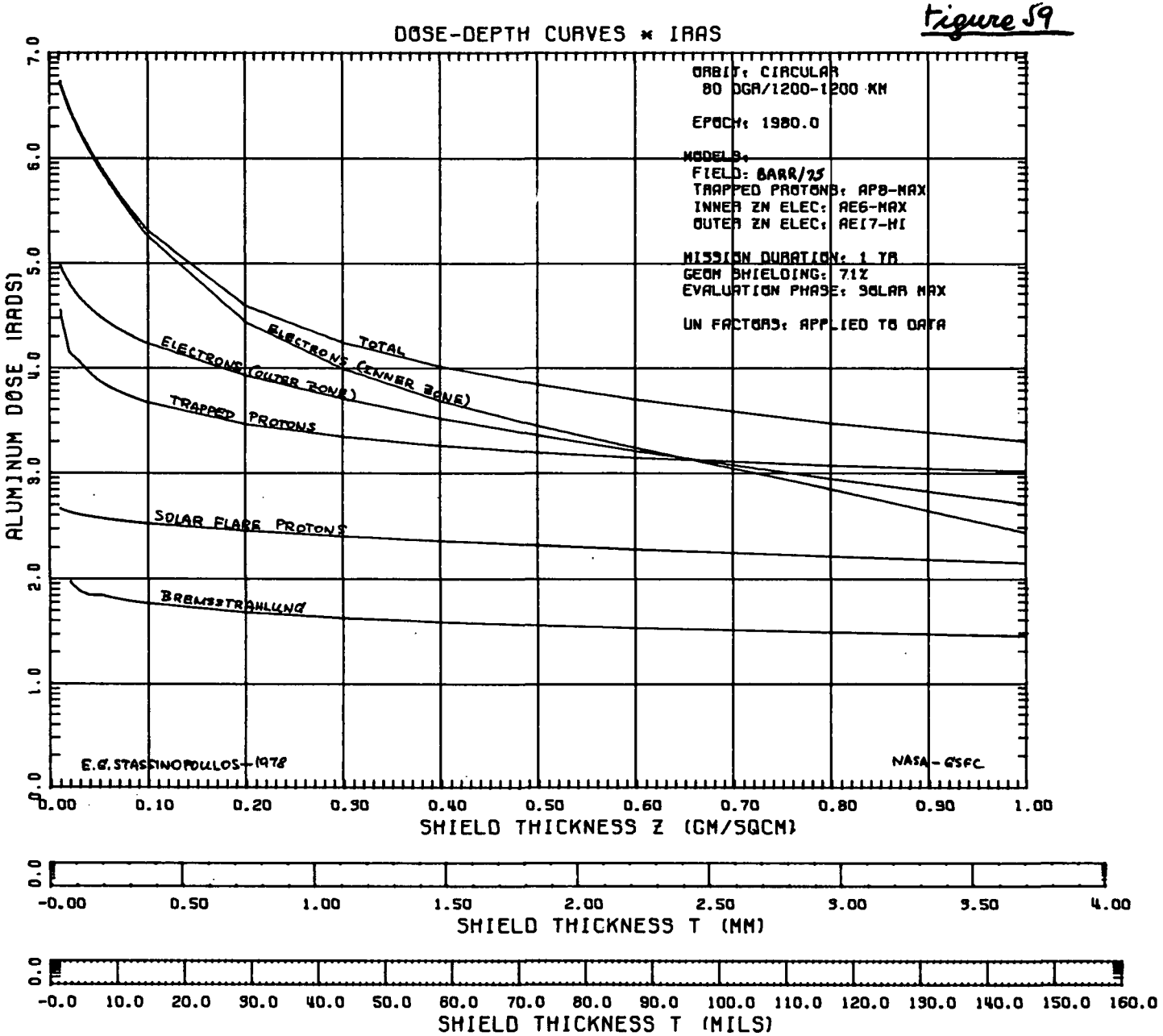
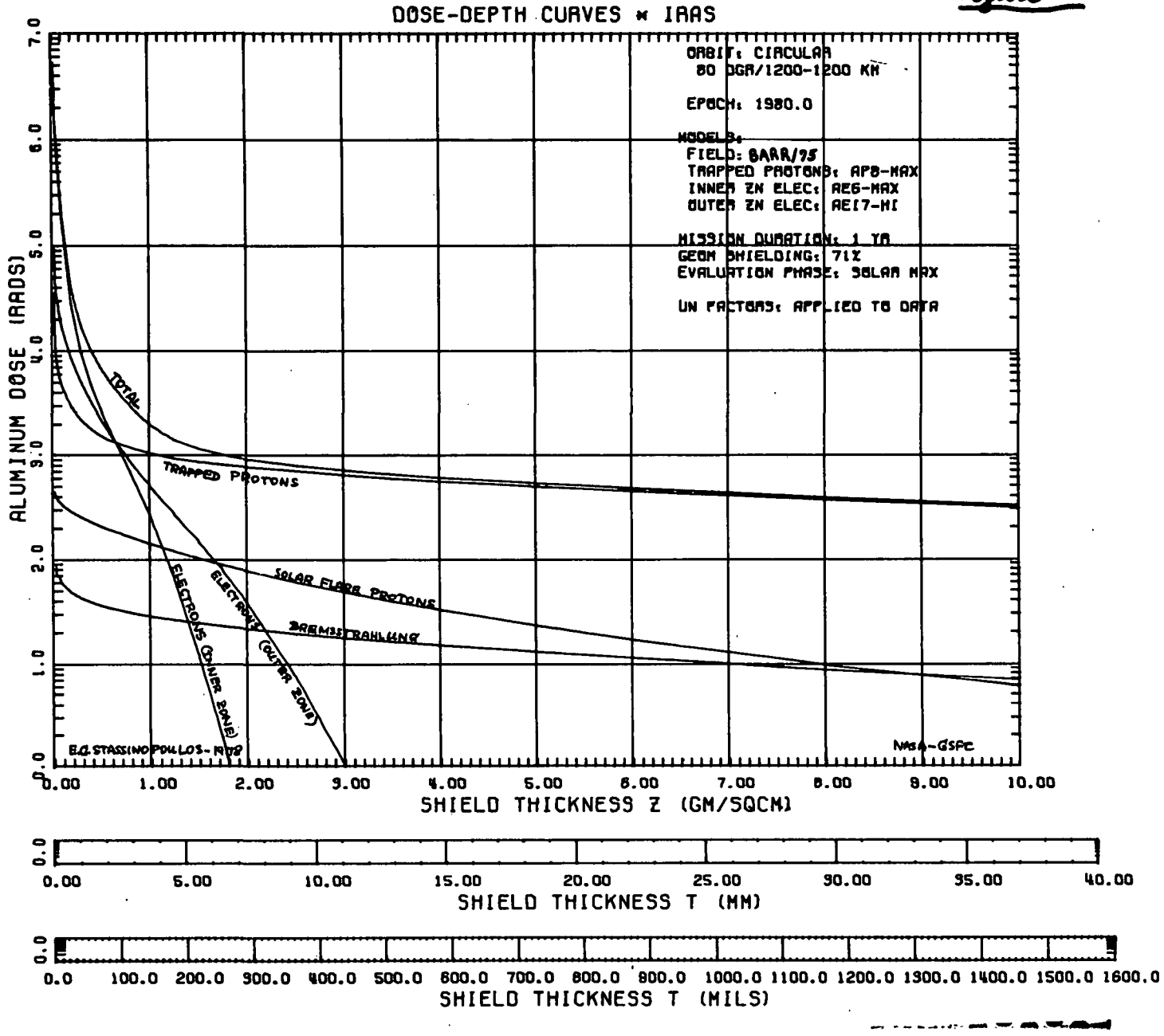

DOSE-DEPTH CURVES * IRAS
ORBIT: CIRCULAR
80 DGA/1200-1200 KM
EPOCH: 1980.0
MODELS:
FIELD: BARR/75
TRAPPED PROTONS: AP8-MAX
INNER ZN ELEC: AE6-MAX
OUTER ZN ELEC: AE7-HI
MISSION DURATION: 1 YR
GEOM SHIELDING: 7.1%
EVALUATION PHASE: SOLAR MAX
UN FACTORS: APPLIED TO DATA
TOTAL
ELECTRONS (INNER ZONE)
ELECTRONS (OUTER ZONE)
TRAPPED PROTONS
SOLAR FLARE PROTONS
BREMSSTRAHLUNG
E.G. STASSINOPOULOS-1978
NASA-GSFC
ALUMINUM DOSE (RADS)
0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
0.00
0.10
0.20
0.30
0.40
0.50
0.60
0.70
0.80
0.90
1.00
SHIELD THICKNESS Z (GM/SQCM)
0.0
-0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
4.00
SHIELD THICKNESS T (MM)
0.0
-0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
80.0
90.0
100.0
110.0
120.0
130.0
140.0
150.0
160.0
SHIELD THICKNESS T (MILS)

Figure 60



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FIGURE 61

THE IRAS RADIATION ENVIRONMENT

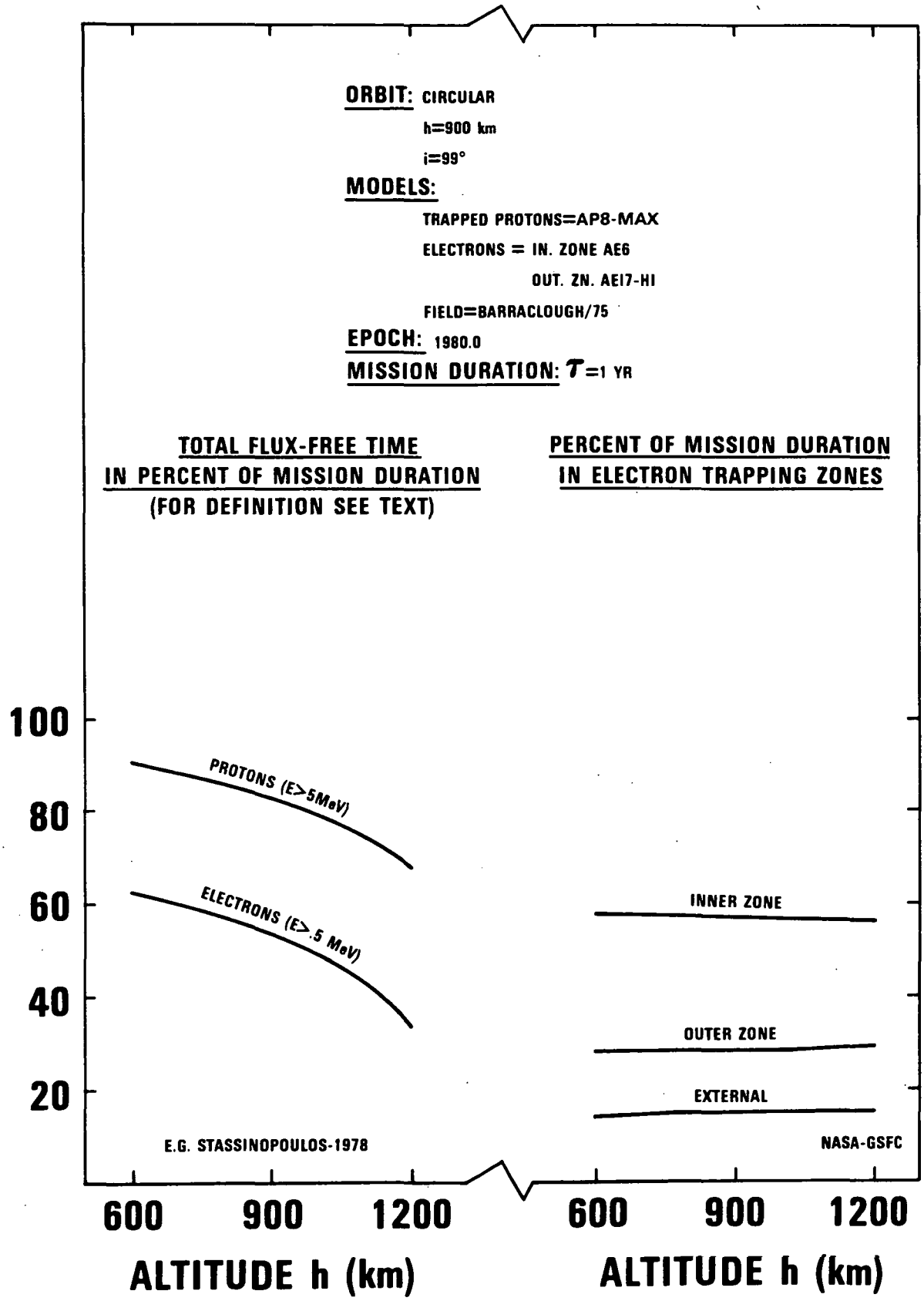
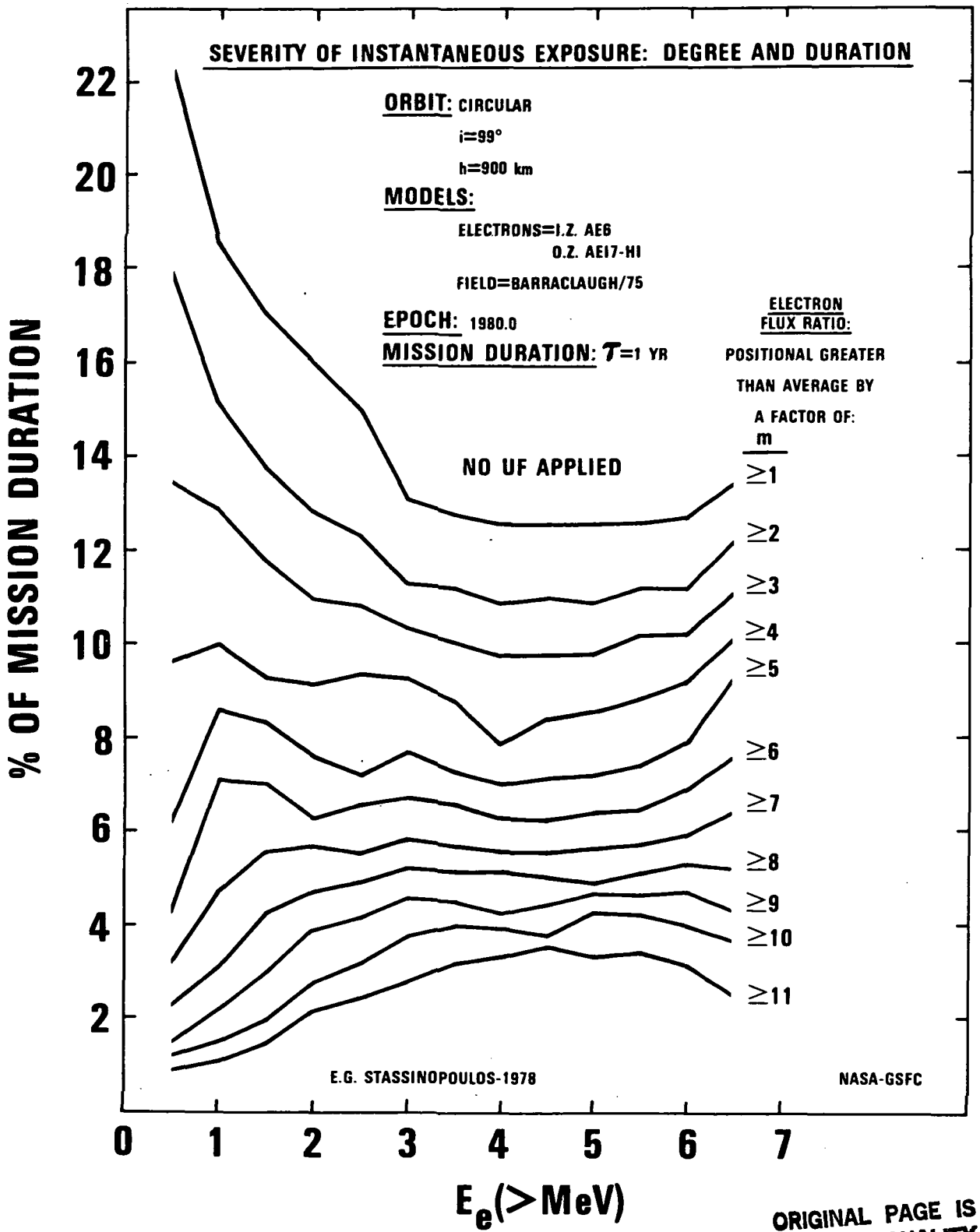


FIGURE 62

THE IRAS RADIATION ENVIRONMENT



ORIGINAL PAGE IS
OF POOR QUALITY

FIGURE 63

THE IRAS RADIATION ENVIRONMENT

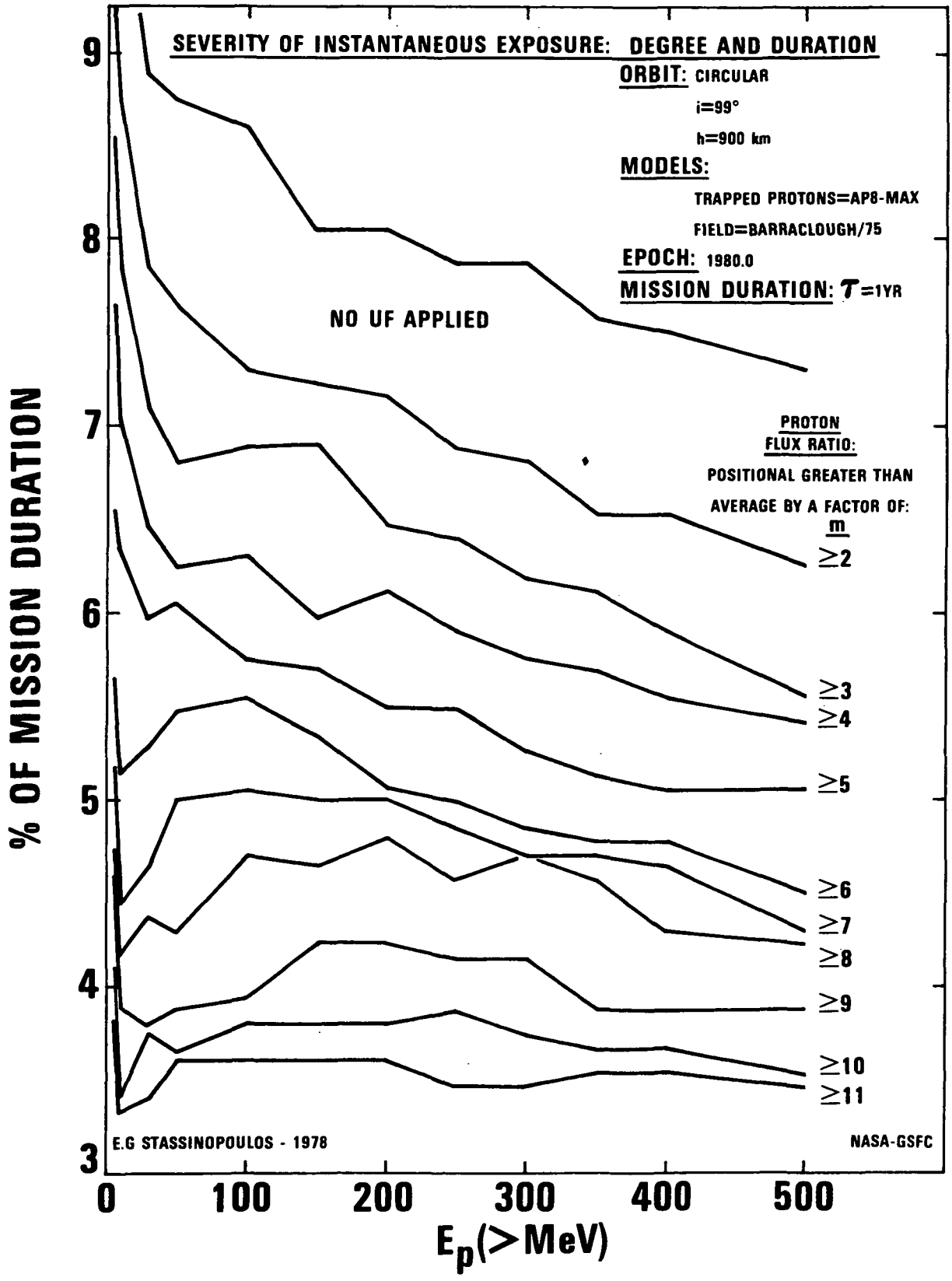
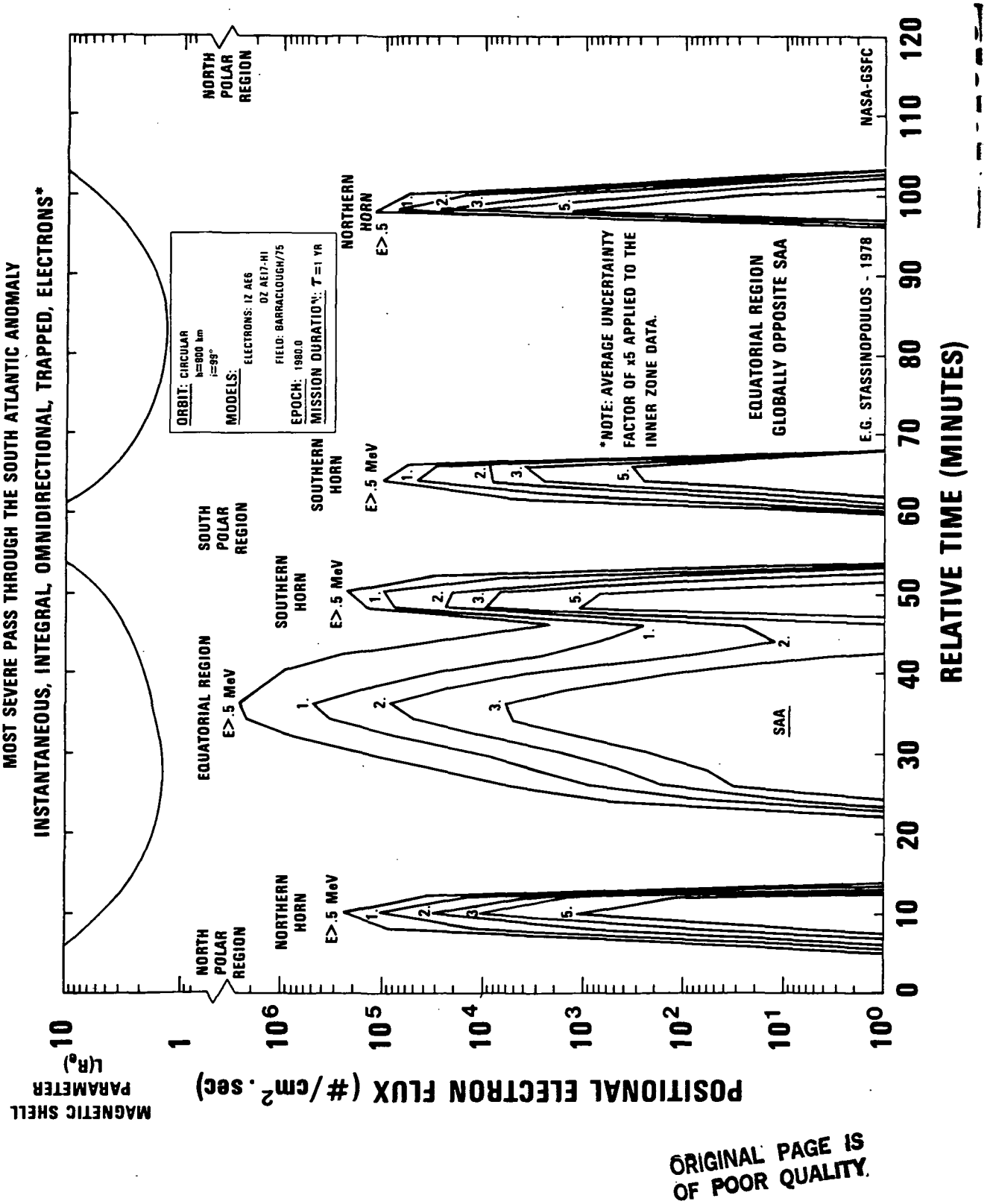


FIGURE 6



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FIGURE 65

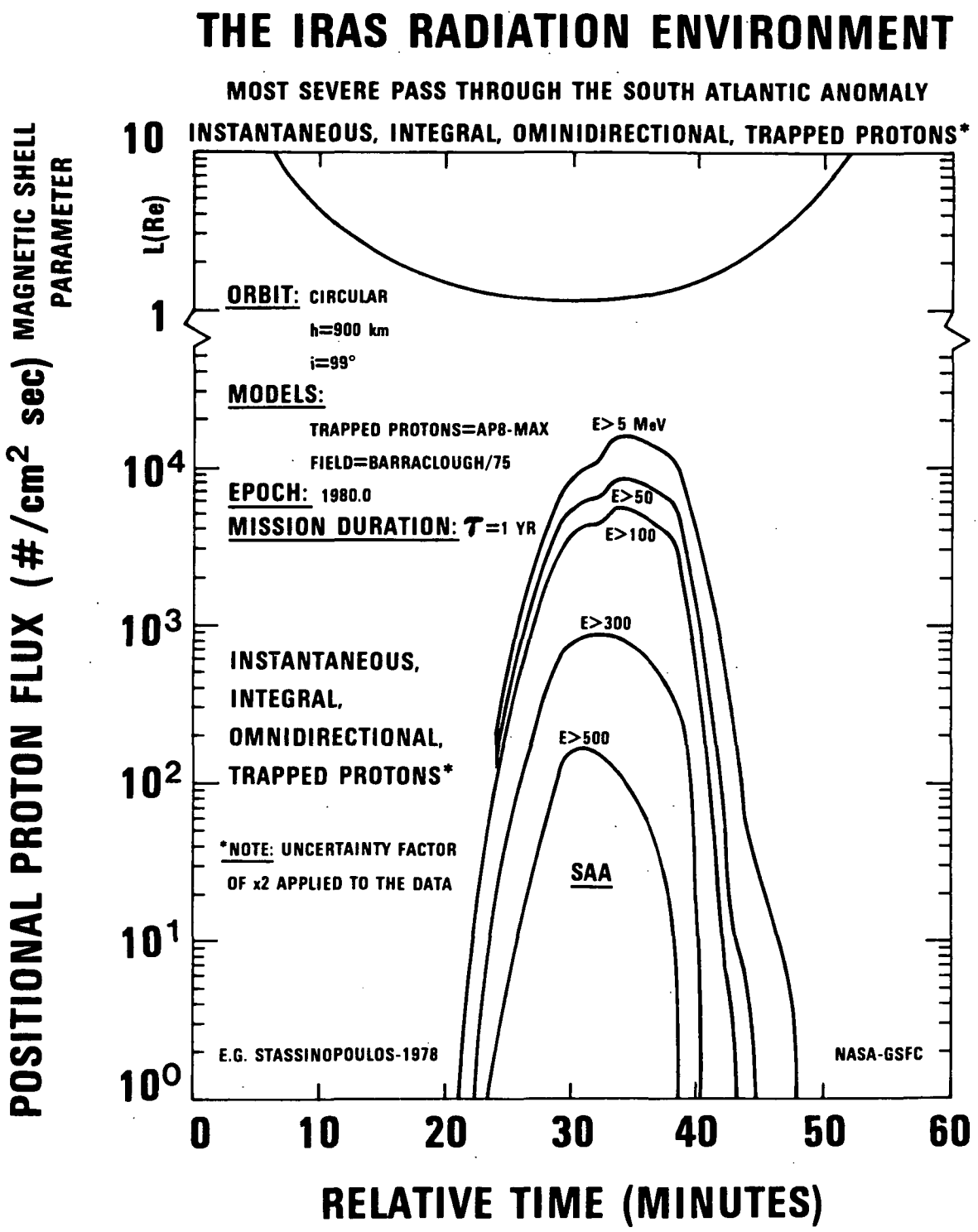
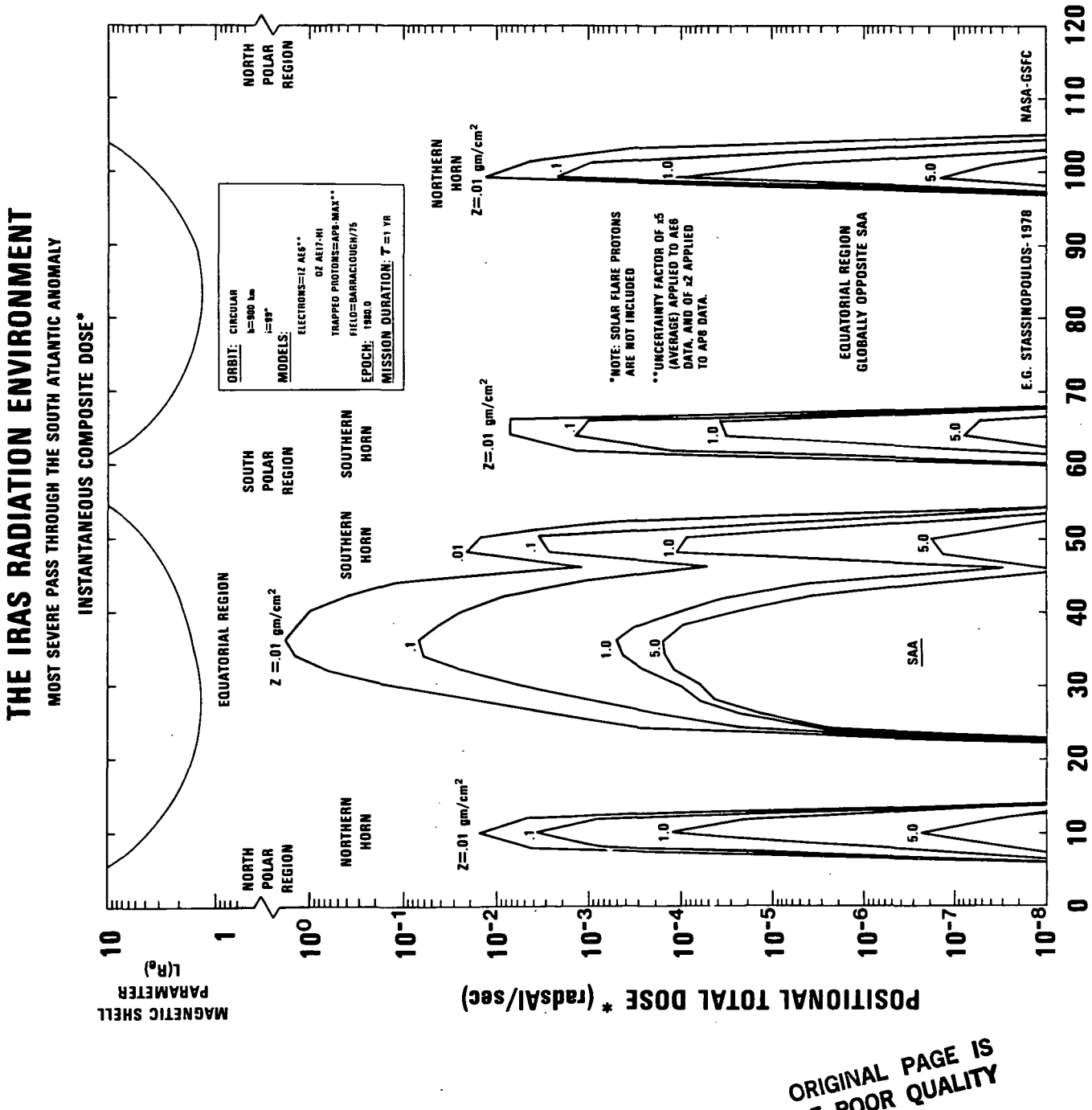

THE IRAS RADIATION ENVIRONMENT
MOST SEVERE PASS THROUGH THE SOUTH ATLANTIC ANOMALY
INSTANTANEOUS, INTEGRAL, OMINIDIRECTIONAL, TRAPPED PROTONS*
POSITIONAL PROTON FLUX (#/cm² sec)
MAGNETIC SHELL PARAMETER
L(Re)
10
1
ORBIT: CIRCULAR
h=900 km
i=99°
MODELS:
TRAPPED PROTONS=AP8-MAX
FIELD=BARRACLOUGH/75
EPOCH: 1980.0
MISSION DURATION: τ=1 YR
E>5 MeV
E>50
E>100
E>300
E>500
SAA
INSTANTANEOUS,
INTEGRAL,
OMNIDIRECTIONAL,
TRAPPED PROTONS*
*NOTE: UNCERTAINTY FACTOR
OF x2 APPLIED TO THE DATA
E.G. STASSINOPOULOS-1978
NASA-GSFC
10⁴
10³
10²
10¹
10⁰
0
10
20
30
40
50
60
RELATIVE TIME (MINUTES)

FIGURE 66



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ALTITUDE: 900 KM

ELECTRONS: E > .04 MEV

INNER ZONE MODEL: AE6 (SOLAR MAX)

OUTER ZONE MODEL: AE17-HI

ALTITUDE= 900.0 ENERGY= 0.040 ELECTRONS

	-180.0	-177.0	-174.0	-171.0	-168.0	-165.0	-162.0	-159.0	-156.0	-153.0	-150.0	-147.0	-144.0	-141.0	-138.0
81.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
80.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
79.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
78.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
77.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
76.0	170799	26380	1	1	1	1	1	1	1	1	1	1	1	1	1
75.0	99088	111016	131196	167712	14930	1	1	1	1	1	1	1	1	1	1
74.0	90435	90500	90935	98782	113569	141644	195160	1	1	1	1	1	1	1	1
73.0	135543	114290	99938	91175	91165	92947	105798	130690	182455	1	1	1	1	1	1
72.0	188013	171382	154910	137461	111752	95599	91089	91529	103511	129350	186698	1	1	1	1
71.0	252406	232070	207787	189431	168375	151492	120935	99621	91123	91301	105031	136644	62840	1	1
70.0	309624	300609	281026	253763	226043	199585	176640	153692	124132	98906	90717	92239	110635	155224	1
69.0	408018	375606	339102	311075	302137	267094	238600	206377	178147	152959	118606	94520	90350	96280	123174
68.0	621163	555156	473983	407571	368516	324343	303551	272970	240768	201803	173236	147869	109273	89983	89175
67.0	750773	697065	652627	626884	527146	434226	380650	328653	303029	268998	230697	193465	162723	131825	97698
66.0	878016	846681	831400	745398	685076	634664	554232	444002	378258	323497	300097	257216	215375	181773	149440
65.0	1093728	1049442	949595	878975	843242	783030	697284	637044	550637	428787	366161	309975	287822	240370	196215
64.0	1134221	1090622	1081969	1120627	1009884	903391	849433	786697	691903	628495	516549	402445	338651	297623	259557
63.0	1295334	1242299	1184918	1131363	1088770	1104519	1033112	904598	842590	763899	671833	616352	463880	374018	310121
62.0	1408048	1408672	1346527	1299501	1218412	1157955	1092478	1101080	1014205	882362	828860	721486	632656	540918	404197
61.0	1340914	1400964	1406518	1436430	1380402	1314572	1227497	1154350	1083267	1105371	959604	849901	791445	673063	605114
60.0	1103889	1236076	1297386	1392002	1408236	1430954	1386514	1308900	1209856	1121833	1069839	1059543	894653	816586	715541
59.0	660025	788174	970075	1223463	1278699	1371212	1406663	1427794	1366528	1285272	1172815	1078474	1066534	966061	835114
58.0	255596	359925	530802	723521	905721	1163631	1272298	1373836	1398305	1426510	1324435	1224899	1124142	1044474	1048901
57.0	23711	87603	213823	308709	469216	699634	897436	1191383	1278900	1393429	1391849	1374751	1272139	1158441	1051844
56.0	1	864	10308	51129	195805	292409	464997	714811	940753	1220583	1301495	1372037	1381591	1303248	1201249
55.0	1	1	1	85	6042	41453	195216	306820	517684	762768	1031667	1227238	1331153	1353421	1344245
54.0	1	1	1	1	1	11	6417	53756	213387	351326	626188	847462	1174911	1253233	1332507
53.0	1	1	1	1	1	1	1	225	11428	93471	248993	432790	706603	966679	1187608
52.0	1	1	1	1	1	1	1	1	1	1261	25286	182584	308657	570915	809235
51.0	1	1	1	1	1	1	1	1	1	1	1	5475	62967	226128	407865
50.0	1	1	1	1	1	1	1	1	1	1	1	1	434	18295	169319
49.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3941
48.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
47.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
46.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
45.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
44.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
43.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
42.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
41.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
40.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
39.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
38.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
37.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
36.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
35.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
34.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
33.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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ORIGINAL PAGE IS
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ALTITUDE= 900.0 ENERGY= 0.040 ELECTRONS

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4.0	84	90	91	97	88	78	63	49	33	18	8	12	20	33	83
3.0	89	98	107	122	121	127	123	124	109	90	65	46	67	132	246
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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 0.040 ELECTRONS

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-86.0	212787	157720	185791	176057	168621	163283	159030	155797	153451	152239	151793	151842	152696	154507	157065

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 0.040 ELECTRONS

	-45.0	-42.0	-39.0	-36.0	-33.0	-30.0	-27.0	-24.0	-21.0	-18.0	-15.0	-12.0	-9.0	-6.0	-3.0
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76.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
72.0	1	1	1	1	1	1	1	1	1	1	1	1	1	108919	166128
71.0	1	1	1	1	1	1	1	1	1	1	1	208590	152232	124762	107990
70.0	1	1	1	1	1	1	1	1	1	1	202991	146419	118788	106164	103596	108491
69.0	1	1	1	1	1	1	1	209237	146299	117028	105756	104040	113659	135668	164142
68.0	1	1	1	1	1	93656	151903	118541	105410	104037	116392	143256	175543	197249	223694
67.0	1	1	1	5022	164433	123449	105081	103255	115654	145044	178428	204769	233305	266381	297198
66.0	1	1	186692	130653	106208	102062	111622	141468	177368	206357	237298	279134	311453	347187	365670
65.0	115842	143004	110761	101360	105702	131607	172429	201922	235682	282153	318690	349975	381100	422877	476262
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62.0	123558	166047	199234	237204	286474	339802	370017	427717	515951	644161	748488	806535	908783	967613	1014223
61.0	180721	218129	269040	319451	350620	407594	488443	620718	741960	807095	926450	976309	1048981	1156029	1267475
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57.0	517335	663855	754333	894316	962500	1102174	1292680	1252426	1317245	1413237	1513002	1599580	1620272	1601555	1580277
56.0	705072	804373	921524	1016729	1186842	1224810	1289099	1382878	1500141	1596179	1611747	1608363	1534480	1442378	1388647
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54.0	986144	1164976	1191710	1271494	1390482	1504340	1616035	1585079	1523019	1424011	1215819	932573	751743	488912	339143
53.0	1169567	1266469	1304235	1442777	1565173	1567351	1561315	1428986	1254491	931442	712024	442475	293232	169163	47918
52.0	1229301	1349257	1471075	1569596	1559928	1452830	1377166	986650	750717	443585	281760	122064	26268	4102	1
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17.0	1	1	173	1034	1128	1390	1179	964	693	403	215	123	111	93	77
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15.0	7065	6622	7608	8047	6697	5400	4336	2630	1621	1014	812	727	537	412	296
14.0	14290	15665	15674	13562	10548	8738	5279	3588	2282	1774	1463	1144	855	590	419
13.0	28571	25029	23573	19283	16229	10880	6670	4561	3624	2978	2138	1555	1114	766	509
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ORIGINAL PAGE IS
OF POOR QUALITY

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ALTITUDE= 900.0 ENERGY= 0.040 ELECTRONS

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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 0.040 ELECTRONS

	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0	75.0	78.0	81.0	84.0	87.0
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79.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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76.0	121720	113132	106230	100240	95798	92878	91094	90226	90000	89247	88671	88235	87478	87275	87503
75.0	95545	94225	93547	93072	93750	95797	99024	101885	105158	108798	112605	116659	121031	125644	131038
74.0	109310	115698	123350	131678	139636	146929	150706	152489	154707	158281	161919	164977	168316	171554	174799
73.0	163812	169789	175661	181948	188548	193800	194469	198393	202120	206097	210310	214378	218843	222926	224587
72.0	215443	223125	231336	240777	246077	250624	254113	258486	263204	268748	275108	277413	275486	274893	275180
71.0	283105	295088	306169	313699	312358	302346	303637	305823	308943	312918	317523	322744	328606	335059	342866
70.0	338081	348245	360353	368257	376160	381472	386900	393824	401920	410719	421328	432824	445097	458717	474281
69.0	443435	465546	489575	511434	532655	553835	574929	592928	585754	580928	578211	576967	577654	579992	583504
68.0	647218	648819	654234	663098	668749	672159	677287	683528	690218	697534	705941	714952	724971	718939	710967
67.0	772243	792843	814609	818480	811254	805662	800940	799419	797954	796627	796989	798282	800750	804732	807939
66.0	891181	900034	910517	922386	935007	949804	964842	980119	996694	1006361	985140	959849	936209	916777	901334
65.0	1115493	1104348	1075401	1052202	1032468	1015116	1000398	986514	978513	971072	964614	960904	958501	958167	959598
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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 0.040 ELECTRONS

	90.0	93.0	96.0	99.0	102.0	105.0	108.0	111.0	114.0	117.0	120.0	123.0	126.0	129.0	132.0
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80.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
79.0	1	1	1	1	2273	5044	8212	10442	11542	10927	8855	5720	2643	1	1
78.0	130267	125569	121713	118525	115979	113983	112493	111662	111670	111485	110815	111616	113075	115097	117976
77.0	88488	87251	86310	85622	85080	84770	84582	84474	84466	84478	84502	84667	84715	84905	85221
76.0	88138	89037	90129	91359	92659	93989	95137	95871	96397	96725	96804	97200	96880	96286	95398
75.0	135020	138449	140438	140561	141008	141621	142331	142938	143618	144250	144734	144968	144951	144733	144283
74.0	174986	175750	177304	178592	180443	182461	184751	186884	188319	189539	190443	190978	191159	191658	190549
73.0	227000	229175	231403	233879	236502	239126	241691	244217	246469	248617	250458	251807	252304	252723	252858
72.0	275172	275764	276108	277234	278615	280456	282631	284862	287084	289370	291634	293710	295814	297341	298121
71.0	345829	347103	349836	353606	357500	362079	367086	372553	378113	383653	388657	393688	397583	399881	399198
70.0	486879	499114	511738	526656	540228	538027	536569	536650	537725	539799	542499	546113	550022	553993	557812
69.0	588983	596052	604727	612387	617829	624523	631590	639781	648142	655730	662817	674713	684040	691312	695472
68.0	705374	702109	701068	703166	707315	712808	719038	726343	736311	745542	753447	762011	770627	778770	786338
67.0	815085	826225	837218	851139	862380	878881	896563	920684	921481	917111	914404	911929	912581	916786	923349
66.0	888630	880434	876291	874225	872062	871779	874753	879360	886820	895506	906569	919258	931430	946269	960034
65.0	964906	971767	981325	991543	998018	1006222	1014321	1025887	1038660	1042560	1048679	1058603	1071277	1084635	1099494
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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 0.040 ELECTRONS

	135.0	138.0	141.0	144.0	147.0	150.0	153.0	156.0	159.0	162.0	165.0	168.0	171.0	174.0	177.0
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ORIGINAL PAGE IS
OF POOR QUALITY

M-8

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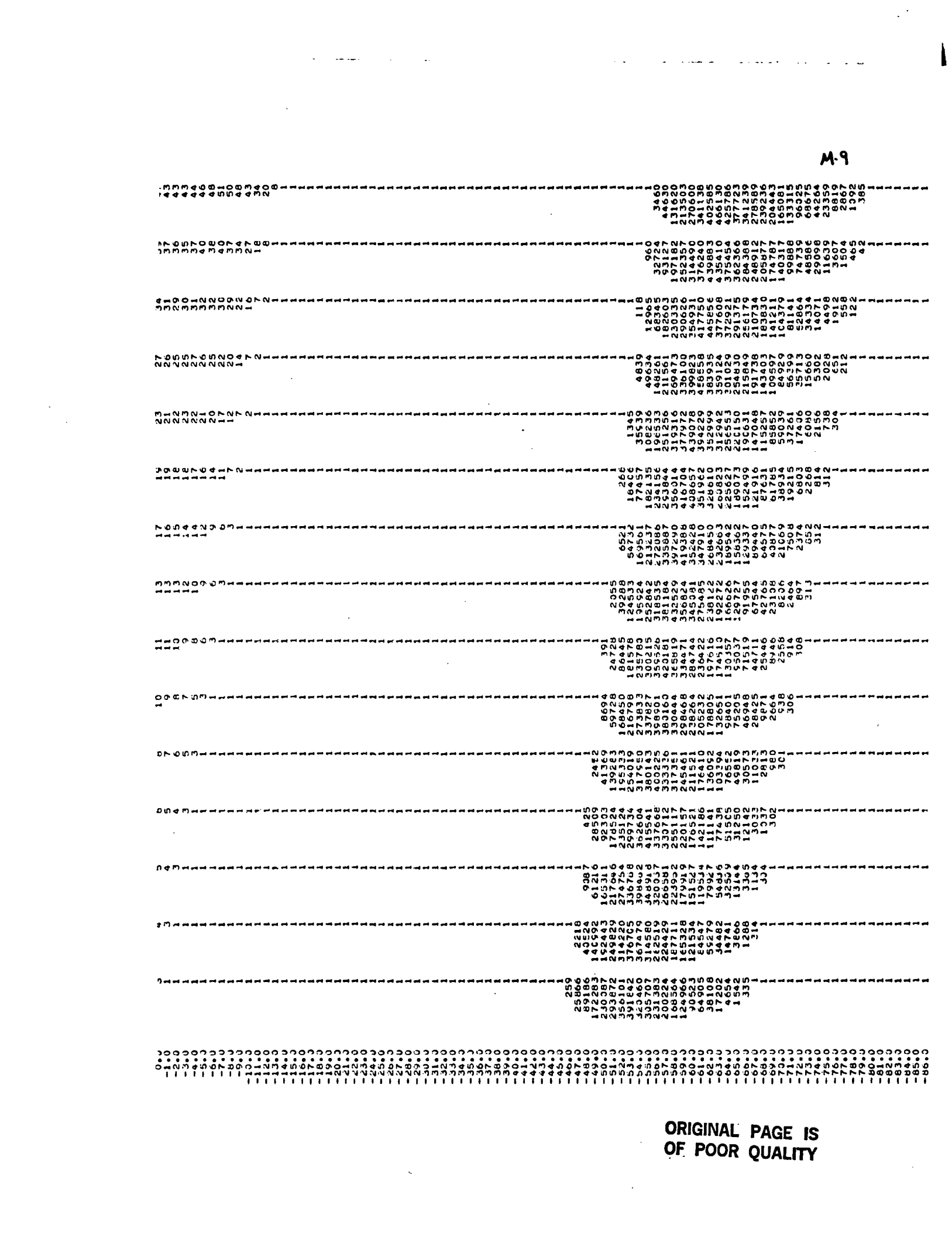
ALTITUDE: 900 KM

ELECTRONS: E > .25 MEV

INNER ZONE MODEL: AE6 (SOLAR MAX)
OUTER ZONE MODEL: AE17-HI

ALTITUDE= 900.0 ENERGY= 0.250 ELECTRONS

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15.0	6	4	3	1	1	1	1	1	1	1	1	1	1	1	1
14.0	11	10	8	5	3	1	1	1	1	1	1	1	1	1	1
13.0	15	14	13	12	9	5	2	1	1	1	1	1	1	1	1
12.0	15	17	18	18	16	12	9	5	2	1	1	1	1	1	1
11.0	15	18	20	21	21	19	16	12	8	5	2	1	1	1	1
10.0	14	17	19	22	23	23	23	22	17	12	8	4	1	1	1
9.0	12	14	18	21	23	25	27	28	25	22	18	13	9	4	1
8.0	10	13	15	18	21	25	26	30	31	30	27	24	20	14	8
7.0	9	11	13	15	19	23	26	28	31	33	33	33	30	27	20
6.0	7	9	11	14	16	20	23	27	30	34	36	39	37	37	33
5.0	6	7	9	11	15	17	21	24	27	33	36	40	43	43	45
4.0	5	6	8	9	12	14	19	22	26	31	35	38	43	48	48
3.0	5	6	7	8	10	13	15	19	23	28	31	37	42	48	52
2.0	4	5	7	7	9	11	13	16	19	24	29	34	40	44	53
1.0	3	4	6	7	9	10	12	15	18	21	25	30	37	44	52



ORIGINAL PAGE IS
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ALTITUDE= 900.0 ENERGY= 0.250 ELECTRONS

	-135.0	-132.0	-129.0	-126.0	-123.0	-120.0	-117.0	-114.0	-111.0	-108.0	-105.0	-102.0	-99.0	-96.0	-93.0
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77.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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69.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
68.0	323	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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66.0	5642	2209	784	281	1	1	1	1	1	1	1	1	1	1	1
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63.0	89673	60969	40113	20943	8282	2899	1187	408	1	1	1	1	1	1	1
62.0	124465	95564	71000	47815	30951	13521	4705	1992	703	313	1	1	1	1	1
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60.0	214201	166421	148457	116725	91614	66655	45750	30389	14014	5602	2401	1260	547	326	74
59.0	267135	226078	204073	160054	135281	99221	79485	56033	38136	22193	11482	4855	2457	1639	860
58.0	312637	274986	237701	205325	177931	142431	111901	89156	67280	48585	34716	20032	11807	6032	3511
57.0	388484	337891	285917	254581	215360	196820	152952	132887	98901	83550	61264	45901	34901	23848	15616
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55.0	481951	445357	390123	377845	320547	273271	244557	209579	193361	156774	135862	111433	93103	83313	70479
54.0	508127	451082	464819	404843	372114	352932	288435	255831	225703	197203	164253	131009	135485	117545	101107
53.0	533559	478562	426146	472793	428248	375205	368030	313380	269337	249560	216576	193491	184123	157483	141525
52.0	562380	503118	553377	599365	540663	448279	389745	361749	353973	291252	256605	241565	215786	196232	190637
51.0	599834	535196	577480	527781	569000	514973	459007	418330	368199	355809	330035	282936	257501	247904	226990
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49.0	12630	52660	114035	194591	229005	269675	317874	356332	400030	436791	427074	381230	357112	352576	357572
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46.0	1	1	1	48	3629	34575	71534	156267	197501	230999	264705	303317	335707	365575	395487
45.0	1	1	1	1	1	730	11131	46337	96058	177174	202885	236890	265135	297178	327293
44.0	1	1	1	1	1	1	10	2668	25119	58040	116389	180564	202997	232060	256536
43.0	1	1	1	1	1	1	1	1	330	6029	35003	65141	119911	178278	196963
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41.0	1	1	1	1	1	1	1	1	1	1	1	1	1089	7865	30936
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26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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4.0	51	53	51	52	45	38	29	21	13	7	3	4	6	10	25
3.0	57	61	64	70	67	67	61	58	48	38	25	16	23	45	81
2.0	57	66	73	81	91	97	97	102	98	89	85	75	58	94	177
1.0	60	68	77	88	103	111	123	139	154	158	169	173	171	166	267

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-2.0	50	63	77	99	125	146	186	226	269	332	430	571	716	1003	1327
-3.0	52	62	73	90	117	150	202	248	311	393	491	666	892	1231	1784
-4.0	51	62	75	95	119	147	190	258	343	440	570	760	1055	1540	2305
-5.0	54	64	79	96	116	147	194	254	326	465	651	866	1228	1833	2611
-6.0	63	71	84	105	130	158	202	255	335	462	666	940	1449	2113	3146
-7.0	62	83	98	118	140	174	215	277	352	468	651	945	1430	2257	3577
-8.0	65	82	106	134	163	196	247	307	400	513	733	1029	1506	2298	3887
-9.0	66	87	113	143	186	238	289	369	464	611	792	1074	1617	2366	3903
-10.0	63	86	117	154	201	270	345	425	549	698	929	1294	1770	2687	4254
-11.0	53	81	116	157	211	296	386	549	662	864	1111	1496	2103	3089	4730
-12.0	40	69	111	153	232	309	440	576	805	1091	1356	1876	2552	3624	5371
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-14.0	9	28	64	116	198	326	489	697	1025	1407	2142	3064	4247	5649	8341
-15.0	1	10	35	85	167	277	482	709	1115	1584	2286	3541	5430	7514	10723
-16.0	1	1	11	42	111	236	417	707	1101	1794	2602	3918	6260	9732	14991
-17.0	1	1	1	13	55	146	330	627	1114	1807	2936	4623	7131	11789	18724
-18.0	1	1	1	3	16	71	209	465	935	1770	2983	5005	8257	13808	22358
-19.0	1	1	1	1	10	51	144	330	715	1510	3017	5322	9213	15773	26952
-20.0	1	1	1	1	5	37	130	343	715	1462	2864	5176	9291	16242	28272
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-23.0	1	1	1	1	1	1	38	211	737	1861	3754	6649	11974	21198	34295
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-25.0	1	1	1	1	1	1	1	78	516	1623	4182	9528	19028	33318	55544
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-27.0	1	1	1	1	1	1	1	1	140	1075	3691	8915	18198	34740	62071
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-36.0	1	1	1	1	1	1	1	1	1	1	1	6913	37110	92621	189028
-37.0	1	1	1	1	1	1	1	1	1	1	1	3259	41784	101011	193515
-38.0	1	1	1	1	1	1	1	1	1	1	1	1	33263	107377	237655
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-42.0	1	1	1	1	1	1	1	1	1	1	1	1	6259	38234	88497
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-45.0	1	1	1	1	1	1	1	1	1	1	1	1	984	21899	57131
-46.0	1	1	1	1	1	1	1	1	1	1	1	1	1	23466	63313
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-55.0	1	1	1	1	1	1	1	1	1	1	1	1	1	146	2025
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-63.0	428017	385259	349880	303790	270672	235417	211750	119086	69696	38715	9931	2336	347	13	31
-64.0	485432	450676	414811	376198	336280	299229	265455	234867	198708	116724	73430	45619	14938	4844	1478
-65.0	412183	469652	480126	447882	406639	376307	330924	301816	268927	241629	206408	130111	87158	61285	33117
-66.0	383267	403226	435636	516280	476150	444291	406235	375506	335276	312340	279897	255934	241561	169122	120038
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-68.0	274607	309718	375308	403913	426755	474314	528430	521304	494529	462028	434584	412750	377577	357519	342943
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-70.0	206231	225501	258480	291350	324124	384264	427494	439541	477582	516897	567687	571168	546058	536106	507087
-71.0	155838	193162	218141	244662	285285	308015	346634	405047	441128	455209	522793	564860	614725	594983	
-72.0	121108	149989	179540	216566	235028	262851	301845	322017	360567	412307	457174	466329	463026	520054	551022
-73.0	92777	110777	143979	164330	198009	225747	246455	274622	310906	329168	362690	407494	450913	477682	489948
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-76.0	18279	35228	47344	64106	82970	101640	117116	142195	164269	183169	206509	234578	252640	265281	280604
-77.0	6298	14097	25049	40324	52462	68572	86196	103693	116748	138320	159958	175323	193330	212513	233925
-78.0	2292	4355	9141	17179	29318	42572	53791	68829	83371	103234	111785	125563	143475	161184	176452
-79.0	767	1766	2958	5535	10777	18049	29028	41948	51195	63246	75097	88429	105087	112766	122302
-80.0	277	518	1045	2119	3259	5678	10118	16482	24567	35850	45070	52775	62265	72902	81548
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-86.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

ORIGINAL PAGE IS
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ALTITUDE= 90C.0 ENERGY= 0.250 ELECTRONS

	-90.0	-87.0	-84.0	-81.0	-78.0	-75.0	-72.0	-69.0	-66.0	-63.0	-60.0	-57.0	-54.0	-51.0	-48.0
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80.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
79.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
78.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
77.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
76.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 0.250 ELECTRONS

	-45.0	-42.0	-39.0	-36.0	-33.0	-30.0	-27.0	-24.0	-21.0	-18.0	-15.0	-12.0	-9.0	-6.0	-3.0
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-74.0	611410	613845	603701	576232	547659	519992	494145	470188	449151	423576	396828	373679	353441	326727	289771
-75.0	503647	490417	476126	461445	446667	432721	414954	393789	374278	356116	341478	315933	283530	255200	233385
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-82.0	51172	49518	45593	39710	34063	28866	24221	19987	15540	11610	8589	6138	4451	3276	2352
-83.0	16330	14720	12997	11248	9569	7936	6433	5174	4138	3308	2674	1924	1348	922	639
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ALTITUDE= 900.0 ENERGY= 0.250 ELECTRONS

	0.0	3.0	6.0	9.0	12.0	15.0	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0
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75.0	1	1	1	1	1	1	1	1	1	1	118	358	443	576	782
74.0	1	1	1	1	1	1	102	377	507	742	1108	1652	2244	2717	3415
73.0	1	1	1	166	435	672	1103	1821	2530	3395	4713	6497	8938	12058	15380
72.0	107	431	726	1329	2302	3214	4838	7288	10973	15652	20123	26118	33265	40068	43633
71.0	1174	2303	3473	5661	9419	14919	20921	29117	39950	45406	51041	57426	65011	70751	76130
70.0	5188	9447	16318	24269	35904	45722	53157	62438	72112	80108	90462	101893	104029	108625	113703
69.0	22750	36363	48051	57817	70912	81171	95444	106552	112336	120572	131135	142241	152536	159565	162834
68.0	56483	72208	85730	104327	112915	123767	138887	153244	166510	173058	182986	192707	202082	212852	223521
67.0	102310	114937	131128	148680	168495	178573	192473	206921	222561	238040	240578	245410	249497	254233	260004
66.0	147554	172204	186573	204290	224614	245836	252248	258893	267757	279154	292466	307343	307437	309378	311944
65.0	204175	230371	252532	261602	273444	290187	311300	321028	325944	334626	346064	359714	375253	389969	401801
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63.0	330298	341463	363965	394907	424055	454542	455674	454772	459658	469163	477730	483937	490917	498122	505327
62.0	398049	436462	468277	466481	475818	490712	502905	517119	533051	549881	552377	526519	504667	485175	467831
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55.0	181288	118758	80858	56996	34539	15062	6627	2816	1087	326	36	1	1	1	1
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14.0	161	111	77	54	39	27	19	13	9	6	4	2	1	1	1
13.0	201	143	96	66	47	35	25	18	13	9	7	5	3	1	1
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11.0	303	215	148	99	70	51	37	27	20	15	11	8	6	4	3
10.0	358	242	172	114	79	59	43	31	23	17	14	10	8	5	4
9.0	406	288	190	133	92	68	47	36	26	20	16	12	9	7	5
8.0	496	348	227	158	116	80	59	43	31	24	18	14	10	8	6
7.0	618	427	294	215	148	102	74	54	40	29	23	17	13	9	7
6.0	834	568	411	280	204	140	102	75	55	41	30	22	16	12	9
5.0	1146	818	585	421	285	207	151	104	77	57	43	32	24	16	12
4.0	1710	1202	904	604	433	305	218	148	109	81	58	44	33	24	17
3.0	2774	1918	1360	907	617	430	286	206	153	108	83	60	43	31	22
2.0	4243	2905	1938	1268	849	582	410	297	207	147	114	84	62	42	31
1.0	6040	4148	2852	1871	1278	855	596	430	300	215	159	112	86	57	40

ORIGINAL PAGE IS
OF POOR QUALITY

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-8.0	190359	144474	107311	75253	53333	39653	26927	19386	13173	8872	6312	4314	2332	1255	526
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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 0.250 ELECTRONS

	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0	75.0	78.0	81.0	84.0	87.0
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74.0	4344	5514	6912	8648	10768	12937	14842	16642	18369	20585	23181	25853	28601	31372	34197
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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 0.250 ELECTRONS

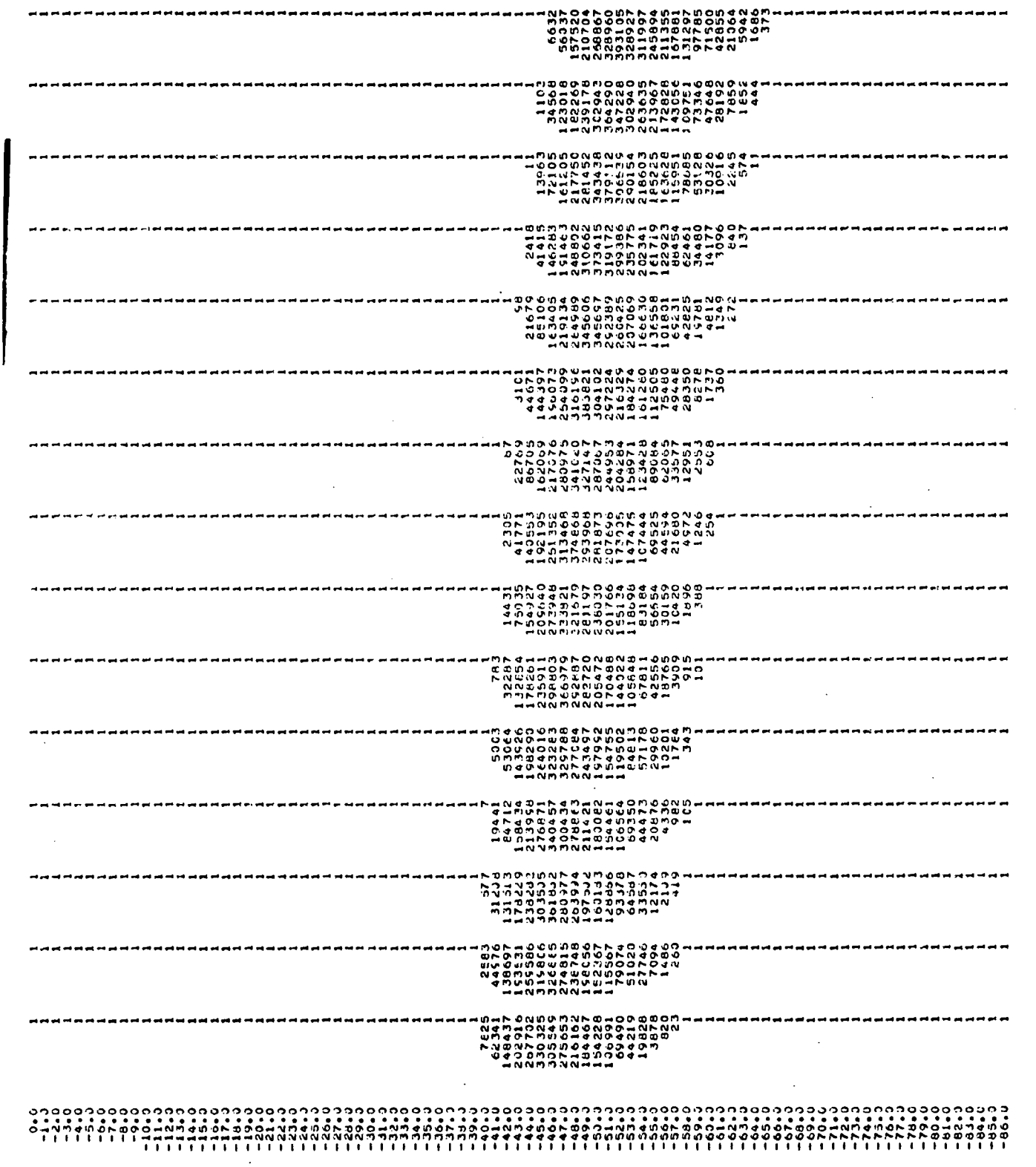
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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 0.250 ELECTRONS

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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE: 900 KM

ELECTRONS: E > .5 MEV

INNER ZONE MODEL: AE6 SOLAR MAX)
OUTER ZONE MODEL: AE17-HI

ALTITUDE= 900.0 ENERGY= 0.500 ELECTRONS

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ORIGINAL PAGE IS
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-61.0	21140	31500	52440	66512	87114	104039	122639	145431	186689	178381	186611	202457	167726	144032	129396
-62.0	9532	18875	28745	47139	62703	87740	99514	122967	141093	175533	183092	185485	200985	182540	154610
-63.0	2620	7849	17104	27009	42264	60322	84661	96252	119468	136422	166421	189194	186214	200403	199918
-64.0	410	2072	6893	15774	26042	39005	58454	79637	94343	115164	133636	159384	159723	189064	200844
-65.0	88	317	1744	6217	15043	24953	36696	57500	74702	93580	111702	132187	153564	193966	194223
-66.0	7	66	255	1549	5787	13330	23410	34436	56561	71062	93659	108878	132233	149172	181718
-67.0	1	6	33	219	1350	5165	12035	21773	32499	51799	67574	83657	105592	127700	145346
-68.0	1	1	6	45	197	1154	4376	10876	20535	31106	47514	65006	88560	102458	121795
-69.0	1	1	1	6	41	182	1003	3806	9818	19371	29754	43806	63124	82761	101336
-70.0	1	1	1	1	6	37	171	886	3324	8863	18211	28677	40347	61758	76761
-71.0	1	1	1	1	1	6	35	161	779	2901	8026	17134	26744	37235	56621
-72.0	1	1	1	1	1	1	6	33	152	675	2503	7240	15187	24112	36244
-73.0	1	1	1	1	1	1	1	6	30	143	574	2135	6505	12759	21644
-74.0	1	1	1	1	1	1	1	1	6	27	133	457	1808	5080	10520
-75.0	1	1	1	1	1	1	1	1	1	6	22	122	362	1379	3672
-76.0	1	1	1	1	1	1	1	1	1	1	6	18	112	265	932
-77.0	1	1	1	1	1	1	1	1	1	1	1	3	13	74	190
-78.0	1	1	1	1	1	1	1	1	1	1	1	1	1	10	44
-79.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	8
-80.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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ALTITUDE= 900.0 ENERGY= 0.500 ELECTRONS

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81.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
80.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
79.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
78.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
77.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
76.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
72.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
71.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
70.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
69.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
68.0	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1
67.0	72	10	1	1	1	1	1	1	1	1	1	1	1	1	1
66.0	496	135	23	5	1	1	1	1	1	1	1	1	1	1	1
65.0	3504	1028	223	62	9	1	1	1	1	1	1	1	1	1	1
64.0	13476	6272	1916	430	124	18	3	1	1	1	1	1	1	1	1
63.0	29825	18610	8686	3177	865	196	52	8	1	1	1	1	1	1	1
62.0	50900	33679	22541	12329	5561	1708	387	120	21	6	1	1	1	1	1
61.0	78065	62770	39211	27765	17360	7991	2894	851	207	74	13	4	1	1	1
60.0	106423	89086	66799	47034	31940	21007	11637	5473	1815	502	153	58	13	6	1
59.0	137466	113640	100042	73968	58333	37066	26108	16981	8303	3515	1374	409	159	89	30
58.0	164912	142715	120775	101771	84625	63726	44861	31194	21378	13274	6958	3061	1433	568	261
57.0	205350	179555	149039	130755	107933	96224	70419	57451	37461	28004	19088	12031	7081	3906	2149
56.0	203987	197294	199636	157337	136698	115411	98300	82655	63344	47954	33644	26528	19269	13880	9298
55.0	207537	206315	193961	200637	170102	142709	125446	105096	94859	73101	60323	45281	34089	28189	22693
54.0	156593	165817	208928	195198	191619	188709	151873	132606	114732	98148	89388	69913	60263	48925	39131
53.0	126846	144629	168036	205445	199255	187343	195771	166401	140888	128677	109544	96055	89423	73684	64220
52.0	100708	115534	134431	153338	182980	202157	188206	186120	189630	153871	134795	124193	109155	97777	93826
51.0	81736	92169	106121	124445	141064	164404	199569	194300	182492	167177	176153	149151	134241	127927	115718
50.0	30381	71064	85504	98158	113084	130949	148917	176644	198678	186280	180510	188348	175826	153349	141366
49.0	4805	20011	46032	79408	89508	103092	120680	136153	156031	185968	194078	182991	179767	185263	191836
48.0	26	1838	13334	30074	71566	82853	94881	108585	125536	140934	162328	190660	193430	184716	180510
47.0	1	1	358	4887	19503	44929	76762	85833	98566	113127	127904	142661	162096	184901	197317
46.0	1	1	1	20	1442	12700	28051	64559	79361	89312	101125	115245	127887	140130	154497
45.0	1	1	1	1	1	308	4250	17545	38525	73076	80660	91026	101269	113019	124366
44.0	1	1	1	1	1	1	3	1074	9289	22436	47299	73977	80597	89538	98138
43.0	1	1	1	1	1	1	1	1	143	2350	12939	25431	48829	73310	78995
42.0	1	1	1	1	1	1	1	1	1	1	360	3436	13657	23875	40819
41.0	1	1	1	1	1	1	1	1	1	1	1	1	453	3034	11342
40.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	230
39.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
38.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
37.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
36.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
35.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
34.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
33.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	5	4	2	1	1	1	1	1	1	1	1	1	1	1	1
5.0	10	8	6	4	3	1	1	1	1	1	1	1	1	1	1
4.0	13	12	11	10	7	5	3	2	1	1	1	1	1	1	1
3.0	17	17	16	16	13	12	9	8	5	3	2	1	1	2	5
2.0	19	20	20	21	21	20	18	16	14	10	8	6	4	6	11
1.0	22	23	24	25	27	26	26	26	25	22	20	17	14	11	18

ORIGINAL PAGE IS
OF POOR QUALITY

0.0	23	26	28	30	31	34	36	36	37	38	38	37	33	31	31
-1.0	22	26	30	32	36	41	43	48	51	54	57	62	63	65	69
-2.0	21	25	29	35	41	45	52	58	62	69	78	90	97	112	123
-3.0	22	25	28	33	40	48	60	68	77	86	99	117	135	158	190
-4.0	21	25	29	35	42	49	59	74	90	105	123	145	176	218	274
-5.0	22	25	30	35	41	49	61	74	89	116	148	177	220	282	347
-6.0	24	27	31	38	45	52	63	76	93	119	156	201	274	349	448
-7.0	22	30	34	40	47	56	66	81	98	122	157	207	282	394	546
-8.0	21	27	35	44	52	61	73	88	109	132	174	226	301	412	610
-9.0	20	26	34	43	55	69	82	100	121	151	186	235	323	434	629
-10.0	16	23	31	41	54	72	91	109	136	166	209	273	349	482	686
-11.0	12	19	27	38	51	71	93	128	153	192	237	303	398	540	753
-12.0	7	14	22	32	49	66	93	122	169	224	271	355	458	608	832
-13.0	3	8	16	27	40	62	88	122	173	241	327	419	530	725	972
-14.0	1	4	9	17	31	52	79	114	168	232	344	487	649	829	1145
-15.0	1	1	4	10	21	37	66	100	158	228	329	497	744	1004	1358
-16.0	1	1	1	4	11	26	48	83	134	219	323	487	759	1150	1705
-17.0	1	1	1	1	4	13	31	61	112	187	306	488	754	1216	1884
-18.0	1	1	1	1	1	5	15	37	77	151	263	449	742	1226	1963
-19.0	1	1	1	1	1	3	9	22	47	105	216	394	693	1190	2010
-20.0	1	1	1	1	1	2	8	23	49	100	195	351	628	1096	1909
-21.0	1	1	1	1	1	1	6	22	51	103	201	350	647	1116	1883
-22.0	1	1	1	1	1	1	4	18	51	113	207	385	704	1174	2064
-23.0	1	1	1	1	1	1	2	11	44	115	238	428	776	1372	2215
-24.0	1	1	1	1	1	1	1	8	37	107	245	489	928	1632	2743
-25.0	1	1	1	1	1	1	1	4	31	98	247	539	1067	1910	3294
-26.0	1	1	1	1	1	1	1	1	19	85	254	560	1133	2091	3688
-27.0	1	1	1	1	1	1	1	1	8	70	244	589	1186	2213	3960
-28.0	1	1	1	1	1	1	1	1	2	42	207	611	1342	2515	4561
-29.0	1	1	1	1	1	1	1	1	1	34	204	623	1489	3026	5252
-30.0	1	1	1	1	1	1	1	1	1	12	185	663	1585	3208	5937
-31.0	1	1	1	1	1	1	1	1	1	1	140	694	1842	3685	6835
-32.0	1	1	1	1	1	1	1	1	1	1	110	715	2075	4580	7977
-33.0	1	1	1	1	1	1	1	1	1	1	96	783	2394	5261	10146
-34.0	1	1	1	1	1	1	1	1	1	1	43	887	2902	6135	11344
-35.0	1	1	1	1	1	1	1	1	1	1	1	861	3491	8346	14226
-36.0	1	1	1	1	1	1	1	1	1	1	1	612	3476	8595	17114
-37.0	1	1	1	1	1	1	1	1	1	1	1	290	3733	9244	17571
-38.0	1	1	1	1	1	1	1	1	1	1	1	1	3017	9536	20564
-39.0	1	1	1	1	1	1	1	1	1	1	1	1	2747	9681	17690
-40.0	1	1	1	1	1	1	1	1	1	1	1	1	1540	7805	20135
-41.0	1	1	1	1	1	1	1	1	1	1	1	1	991	4406	11506
-42.0	1	1	1	1	1	1	1	1	1	1	1	1	600	3031	8717
-43.0	1	1	1	1	1	1	1	1	1	1	1	1	1	3517	8717
-44.0	1	1	1	1	1	1	1	1	1	1	1	1	133	2234	7427
-45.0	1	1	1	1	1	1	1	1	1	1	1	1	87	2132	5363
-46.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1946	5591
-47.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1201	4589
-48.0	1	1	1	1	1	1	1	1	1	1	1	1	1	691	2934
-49.0	1	1	1	1	1	1	1	1	1	1	1	1	1	156	2394
-50.0	1	1	1	1	1	1	1	1	1	1	1	1	1	101	1369
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-53.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	443
-54.0	1	1	1	1	1	1	1	1	1	1	1	1	1	10	217
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-57.0	3712	313	1	1	1	1	1	1	1	1	1	1	1	7	107
-58.0	23621	8867	1206	30	1	1	1	1	1	1	1	1	1	29	111
-59.0	77130	34753	16522	3512	372	1	1	1	1	1	1	1	1	7	102
-60.0	91360	62254	50832	24514	9648	1546	108	1	1	1	1	1	1	14	50
-61.0	111705	99056	88469	75762	36712	18918	5379	866	37	1	1	1	1	3	33
-62.0	137227	121053	106940	95532	86966	56667	29450	16362	3837	708	39	1	1	5	15
-63.0	167706	147203	132708	116056	104628	94363	87815	47610	26611	14261	3793	918	137	4	10
-64.0	214631	182933	159091	143109	128018	114563	104035	95142	82094	46406	27989	16748	5646	1866	574
-65.0	199266	212726	202737	174090	155166	142715	126271	115719	106042	98240	85230	51939	33581	22781	12281
-66.0	201795	199844	212154	227140	193394	170527	154918	142654	128062	119802	110346	103635	100217	68511	47313
-67.0	171350	213845	203532	212867	224002	218251	190312	171971	156483	147072	133911	126615	118192	112007	108500
-68.0	142502	163118	200375	211241	211709	222521	235805	218372	193702	177201	165479	156695	143958	136771	131630
-69.0	117307	141560	156081	183617	222758	215694	222958	231782	246085	225839	203747	188160	176880	170751	169777
-70.0	101071	112906	132078	151337	170571	204736	227194	223403	231330	239971	253364	242972	220888	206747	194348
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-72.0	49049	66857	84159	106186	117427	133667	155978	168267	190354	219842	244327	240860	246022	251188	258739
-73.0	31728	42588	62134	74865	94513	111286	123557	139862	160606	171761	190980	216449	241362	253498	253240
-74.0	19166	28030	37303	51381	68588	82050	100611	115622	126937	141543	161621	171578	184909	203557	224116
-75.0	8319	15537	23415	32931	41947	57607	71897	85354	101765	117715	127015	137909	152698	169387	177574
-76.0	2587	6933	11424	19533	26809	35197	44375	58903	72691	83646	97333	113818	124577	132161	141080
-77.0	583	1766	3992	8204	13569	21091	27899	35709	43449	55602	68926	78365	88775	99895	112378
-78.0	140	337	900	2322	4945	8864	13888	21039	26635	34430	39777	47541	57831	68525	77940
-79.0	23	96	195	472	1155	2461	4823	8395	12327	18155	23252	28382	34903	39346	44742
-80.0	5	12	40	125	221	488	1080	2140	3768	6414	9369	12674	17161	22193	25518
-81.0	1	1	7	15	44	124	195	372	722	1375	2285	3567	5428	8029	10107
-82.0	1	1	1	1	7	13	31	79	144	220	364	613	1008	1571	2271
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-85.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

ALTITUDE= 900.0 ENERGY= 0.500 ELECTRONS

	-90.0	-87.0	-84.0	-81.0	-78.0	-75.0	-72.0	-69.0	-66.0	-63.0	-60.0	-57.0	-54.0	-51.0	-48.0
81.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
80.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
79.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
78.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
77.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
76.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
72.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
71.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
70.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
69.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
68.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
67.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
66.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
65.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
64.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
63.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	12
62.0	1	1	1	1	1	1	1	1	1	1	1	1	8	37	158
61.0	1	1	1	1	1	1	1	1	1	1	1	7	23	124	323	1255
60.0	1	1	1	1	1	1	1	1	1	8	23	101	235	792	2534	7459
59.0	13	9	7	7	8	10	17	44	121	227	644	1961	5160	11142	21393
58.0	156	122	111	108	115	134	188	342	777	1903	4333	9087	17441	26919	38548
57.0	1397	886	693	649	737	1006	1639	2580	4970	8721	15161	23451	34098	46887	79202
56.0	8978	5608	4595	4332	4781	6073	7095	10786	16387	22583	31917	41052	59973	77095	100840
55.0	19039	16910	15233	14706	15672	17783	20549	25098	31922	39336	54104	70412	88978	112358	127633
54.0	33611	30732	29363	29172	30068	32177	36103	42838	55450	67758	82136	104302	118291	137583	161249
53.0	60095	56298	51516	50472	52536	58350	63618	69648	82159	99658	111009	126506	152535	168217	204818
52.0	88239	80814	76292	75393	77642	83545	92088	101706	108671	121391	141108	157243	181528	223111	223142
51.0	108263	102667	100245	100350	102357	106795	114002	123398	139483	150966	168794	203520	220923	220341	230933
50.0	133497	130574	130083	130028	132756	136261	141840	151141	165798	192411	218647	212006	221200	233634	212723
49.0	171740	160925	155861	154826	157685	164680	177546	199662	209940	205108	211452	222115	228036	190868	165372
48.0	181801	186035	190602	194655	196271	196562	196004	197455	204514	214302	227074	199563	172929	153180	134008
47.0	193194	189958	188205	189200	191986	197057	203618	210459	221130	197506	174812	157045	142630	122629	108161
46.0	169422	163672	159426	202877	204484	201101	192373	180543	167265	154446	142675	127738	112961	99805	89397
45.0	132603	140717	147669	152205	154165	152939	149239	143694	137112	126247	113869	103260	92273	67685	29241
44.0	106274	114039	120520	125244	126903	126089	122249	116373	109381	101861	93373	85732	45456	20868	4256
43.0	84507	90746	95630	98864	100396	100261	98406	94308	89628	84224	58097	29632	13740	1757	29
42.0	63998	74701	78123	80459	81520	82153	80931	79029	53936	32423	18301	5039	546	1	1
41.0	17986	25609	33240	39337	41333	38918	32629	24719	16857	6819	1379	74	1	1	1
40.0	1247	3675	7394	11104	12664	10961	7339	3499	1135	161	1	1	1	1	1
39.0	1	1	117	252	401	335	157	15	1	1	1	1	1	1	1
38.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
37.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
36.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
35.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
34.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
33.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	63
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	213	330
13.0	1	1	1	1	1	1	1	1	1	1	1	8	305	631	588
12.0	1	1	1	1	1	1	1	1	1	1	50	433	894	907	796
11.0	1	1	1	1	1	1	1	1	1	44	468	1091	1377	1348	1231
10.0	1	1	1	1	1	1	1	1	52	477	1084	1591	1862	1862	1703
9.0	1	1	1	1	1	1	1	44	370	951	1636	2136	2345	2329	2092
8.0	1	1	1	1	1	1	18	224	677	1435	2109	2798	2900	2862	2748
7.0	1	1	1	1	1	11	99	414	1010	1923	2976	3412	3536	3496	3127
6.0	1	1	1	1	15	82	323	772	1571	2673	3510	4050	4242	4416	3721
5.0	1	1	4	15	59	189	559	1202	2056	3260	4243	4791	5259	5006	4566
4.0	2	8	20	59	139	329	829	1582	2642	3856	5118	6054	6023	5769	5546
3.0	9	21	49	110	258	567	1099	2091	3440	4781	6265	7061	6927	6649	7183
2.0	20	43	88	198	409	797	1515	2514	3966	5777	6851	7517	8044	8494	8257
1.0	37	72	135	253	548	1031	1833	3077	4556	6495	7668	8720	9676	10704	9405

ORIGINAL PAGE IS
OF POOR QUALITY

0.0	51	99	198	388	758	1314	2285	3684	5216	7100	9174	10479	12131	12333	10936
-1.0	76	132	248	474	936	1741	2924	4501	6462	8843	10731	12644	14675	13671	12637
-2.0	137	189	324	567	1055	1999	3477	5496	7963	10538	13493	16361	16326	15921	14987
-3.0	229	274	442	724	1233	2280	3932	6486	9426	12861	15756	17376	18227	18067	18664
-4.0	346	431	574	904	1531	2643	4445	7126	10624	14123	17666	19415	20744	22478	23358
-5.0	465	609	843	1228	1907	3018	5004	7889	11463	15529	19592	22176	24784	27227	28366
-6.0	595	817	1169	1658	2508	3738	5746	8627	13130	17388	22383	26531	30177	32326	33050
-7.0	779	1048	1542	2265	3155	4853	7274	10461	15187	20451	25758	31024	34132	38633	38839
-8.0	882	1360	1959	2836	4405	6032	8937	12673	17982	24568	31168	37015	41967	43694	43240
-9.0	938	1443	2399	3653	5581	7984	11090	15934	22136	29429	36297	42580	44286	44508	45253
-10.0	1003	1510	2467	3952	6705	10521	14291	19338	25861	34040	40574	44947	47033	50336	51130
-11.0	1079	1672	2672	4219	6960	11365	15894	21484	28030	35286	41503	47667	51649	55456	57991
-12.0	1228	1865	2918	4502	7588	12186	16880	22768	30454	37828	44911	52238	58841	63295	66107
-13.0	1408	2095	3210	5082	8348	13657	18416	24796	32939	40487	48880	57515	65220	72547	78245
-14.0	1626	2372	3737	5780	9255	14707	20642	26977	35671	44829	55039	63502	72547	81110	90654
-15.0	1986	2842	4176	6628	10346	16465	22264	30157	38586	49625	60131	72530	83665	97315	109698
-16.0	2328	3429	5183	7661	12235	18510	24600	32525	42938	54930	67906	83194	97244	114437	135412
-17.0	3013	4177	6171	9364	14587	20038	27041	36065	47740	60865	76965	96111	114145	136953	174829
-18.0	3233	5300	7789	11520	16395	22306	30603	41249	53160	69845	87802	112069	136310	176877	219223
-19.0	3269	5767	9378	13264	17974	24864	34700	45836	61343	80681	104323	133060	175444	221441	253297
-20.0	3351	5544	9017	14657	20968	28620	39827	53252	71787	94732	126056	170164	218987	252083	274219
-21.0	3316	5366	8936	14580	22778	34004	47440	64076	87159	119645	160705	211151	248258	271868	271153
-22.0	3358	5648	9280	15313	24667	38125	54648	78979	109361	146561	204382	240862	266006	267959	292668
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-24.0	4306	7289	12051	19159	30959	48540	76164	116092	160924	187024	214875	241995	280738	347157	462770
-25.0	5355	8907	14412	22544	37277	56692	89335	116303	149573	179948	220182	268472	333908	455611	500350
-26.0	6308	10663	17617	27762	41757	60727	86377	117562	152190	194886	250974	324228	419357	488843	504769
-27.0	6662	10989	18062	27846	42344	63052	91593	125695	169112	230042	300192	390437	455231	482152	537732
-28.0	7448	11563	19058	30158	45174	68224	97589	141085	192684	267312	356843	408989	455939	514410	598342
-29.0	8879	14121	22155	35299	53295	79165	115287	163700	227952	301771	353707	412134	477415	579615	703341
-30.0	10715	17915	28655	43164	63709	95931	140301	185540	235124	292565	360288	436188	536609	664940	683133
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-34.0	19080	31012	47707	71455	104165	144932	189610	246806	311389	381109	456566	555998	679555	660586	630261
-35.0	23282	34776	50773	73881	104694	141909	190963	252070	322708	404757	502844	587499	679753	585048	601730
-36.0	30840	44102	62115	87692	119586	160918	214055	283118	359148	442567	472774	501781	526890	565345	527863
-37.0	28482	44642	67858	98906	137791	183971	233379	281506	330091	376745	417482	464979	503591	482089	468484
-38.0	33072	48414	66298	92182	124822	161978	205569	251246	301835	356045	415514	423190	427044	430365	425079
-39.0	31519	50627	77086	103164	132247	168263	211428	255662	298347	327218	347904	367725	386798	386201	368381
-40.0	30860	45506	64747	88544	117552	150319	185855	221041	253540	284147	316813	341078	337389	327230	321111
-41.0	25527	46097	68232	88192	111288	141018	171106	203860	238689	262242	273687	280408	285463	289711	293214
-42.0	16722	30129	48410	71193	95187	121809	147441	172657	194561	215535	227728	238964	251531	263864	278944
-43.0	14866	23392	36077	52106	71425	94152	116718	137976	160400	180013	197922	215512	238695	245951	239008
-44.0	16352	24413	34421	46814	62178	79893	98790	119698	140851	164471	187882	203958	206681	209848	214434
-45.0	10906	20205	33431	49766	66599	82272	95364	121836	138075	152391	163386	171715	179782	189072	203522
-46.0	9618	15842	24247	35915	49057	65078	79890	95549	111603	124716	137593	151779	166286	163105	173627
-47.0	10982	16493	23053	31891	41949	54435	67258	81566	97656	112710	130636	149100	147672	145557	144570
-48.0	6721	13136	22125	33853	45643	55901	68779	83074	97018	105307	111766	116172	118777	122329	128196
-49.0	5693	9796	15082	22348	31401	41887	51990	62112	72039	80643	88462	95788	103905	106528	98773
-50.0	4008	9000	14137	19564	25959	33149	42250	50465	60015	69452	79352	81359	81022	80358	78787
-51.0	2826	5359	9253	14607	21245	28171	35846	42447	48297	53231	57272	60237	62799	65710	64681
-52.0	2105	4858	7501	10745	14750	20023	24814	30359	35921	41090	46012	51112	51087	50253	49660
-53.0	1568	3168	5457	8666	12642	17206	21692	25848	29810	32954	35251	37176	38813	41018	39896
-54.0	912	2843	4527	6625	9095	11861	15151	18435	21524	24876	27858	31183	30153	27302	23704
-55.0	511	987	1986	3834	6418	9408	12274	14875	16563	17656	18044	17812	17055	15956	15081
-56.0	471	600	1236	1843	2729	3931	5328	6789	8013	9035	9789	10306	10762	11275	11968
-57.0	382	786	1214	1700	2155	2850	3591	4480	5349	6212	7128	8107	9161	9670	9733
-58.0	233	417	777	1385	2200	2994	3664	4494	5289	5857	6055	6094	5988	5723	5457
-59.0	230	368	533	750	1039	1447	1883	2343	2763	3138	3436	3664	3841	4007	4243
-60.0	118	345	540	700	896	1129	1376	1656	1975	2298	2644	2966	3353	3120	2711
-61.0	71	113	187	324	539	802	1083	1323	1511	1641	1693	1677	1614	1521	1411
-62.0	45	91	127	172	232	313	410	528	631	716	785	837	870	899	902
-63.0	21	39	72	118	169	222	283	336	396	447	486	514	532	542	549
-64.0	119	24	39	58	85	119	154	190	226	261	293	322	344	362	1
-65.0	5553	2681	1350	717	416	261	197	1	1	330	558	984	1763	3269	6152
-66.0	34473	26517	20738	13035	9131	7091	5998	5680	5945	6934	8725	12044	18055	28907	37645
-67.0	106885	80516	62983	51627	44517	40126	37763	37067	37761	40186	44528	50914	60546	74889	95593
-68.0	125080	120925	118768	117996	117830	118230	114303	109932	110848	116517	128182	132915	137778	143725	150488
-69.0	152583	147588	144215	141846	139165	138233	138313	139510	141508	144718	146956	154019	160730	168409	176756
-70.0	187585	183231	179631	173489	169896	168505	168480	169475	171467	174713	179174	185047	192685	202178	213973
-71.0	235983	225093	216035	210029	207167	205917	205584	206487	208602	212387	217197	223197	230998	239857	251186
-72.0	268406	279684	286878	273771	265657	260866	257923	256934	258080	262724	268340	277302	288424	302055	319701
-73.0	257768	262065	267446	273769	280797	288029	294378	301633	307208	311487	315123	318378	320902	322819	323847
-74.0	243860	264424	268765	270221	273957	277468	281276	284959	288997	293023	296841	300868	304840	309105	313951
-75.0	187780	200584	215290	227962	240035	251266	261330	269938	276048	281224	283479	283840	282117	278635	273271
-76.0	152031	164627	175213	183025	188712	194910	201010	206656	211478	215134	217564	218754	218332	217030	215030
-77.0	126292	131911	136891	142607	148731	155157	160966	166003	170306	172979	174704	175415	175238	174157	171819
-78.0	84968	92682	100289	107889	115462	122689	129381	135142	139044	140770	142153	143161	142830	140438	136512
-79.0	51348	58562	65349	72377	79324	83200	86559	89562	91926	93748	94871	95288	95007	93946	92445
-80.0	29594	34040	37768	40505	43404	46358	49218	51748	53843	55315	56036	56156	55775	54721	52941
-81.0	12363	15118	18289	21841	23715	25355	26956	28405	29593	30464	30948	31043	30748	30065	29067
-82.0	3043	4052	5214	6575	8103	9099	9974	10750	11329	11755	11935	11965	11796	11437	10918
-83.0	444	610	820	1079	1342	1618	1909	2170	2334	2457	2525	2533	2482	2361	2214
-84.0	63	93	130	152	175	200	228	255	276	292	303	306	300	287	267
-85.0	5	8	9	11	13	15	18	21	24	26	27	28	27	26	23
-86.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

ALTITUDE= 900.0 ENERGY= 0.500 ELECTRONS

	-45.0	-42.0	-39.0	-36.0	-33.0	-30.0	-27.0	-24.0	-21.0	-18.0	-15.0	-12.0	-9.0	-6.0	-3.0
81.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
80.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
79.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
78.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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69.0	1	1	1	1	1	1	1	1	1	1	8	26	113	251	634	1597
68.0	1	1	1	1	1	1	1	1	8	25	124	288	818	2174	4660	9076
67.0	1	1	1	1	1	5	20	109	283	883	2447	5727	10808	17933	25309
66.0	1	1	1	1	13	77	240	791	2407	6056	11681	20708	28294	37693	46499
65.0	1	1	9	43	179	595	2081	5527	11521	21536	29840	39666	51531	68118	81651
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63.0	71	240	921	3053	8535	16770	27179	38800	53242	74470	89243	108712	126952	136654	151936
62.0	536	2042	6051	13074	23966	36225	49241	71140	88245	109634	128217	140309	160330	174557	188374
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15.0	133	120	138	125	118	96	81	58	39	24	23	26	27	27	23
14.0	270	292	270	233	193	152	112	86	56	47	54	56	54	47	40
13.0	532	460	386	353	289	217	155	113	88	100	99	94	84	71	57
12.0	815	681	578	507	397	289	210	162	162	165	157	141	121	100	77
11.0	1060	919	815	694	521	373	283	253	270	260	232	196	160	130	99
10.0	1403	1276	1049	865	649	483	409	408	406	364	325	271	215	170	132
9.0	1820	1509	1412	1066	824	664	612	607	586	501	432	354	272	200	144
8.0	2190	2020	1738	1278	1023	894	920	874	797	684	573	421	312	225	167
7.0	2731	2551	1954	1554	1348	1285	1276	1246	1060	861	639	476	360	266	203
6.0	3429	3046	2380	2021	1870	1895	1921	1701	1325	999	751	569	439	332	248
5.0	4430	3572	2871	2584	2571	2639	2537	2089	1535	1168	933	718	539	418	321
4.0	5354	4268	3474	3352	3535	3595	3295	2435	1885	1446	1169	915	701	556	438
3.0	6126	4907	4456	4549	4985	4823	3613	2862	2336	1868	1481	1178	965	745	603
2.0	6998	6211	5989	6393	7088	5515	4286	3570	2931	2402	1990	1607	1341	1058	833
1.0	8067	7619	7767	8647	8217	6629	5403	4511	3723	3230	2707	2219	1883	1560	1065

ORIGINAL PAGE IS
OF POOR QUALITY

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-83.0	1974	1710	1438	1176	935	711	532	392	283	205	158	94	52	27	15
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-85.0	21	18	15	13	11	9	8	3	1	1	1	1	1	1	1

ALTITUDE= 900.0 ENERGY= 0.500 ELECTRONS

	0.0	3.0	6.0	9.0	12.0	15.0	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0
81.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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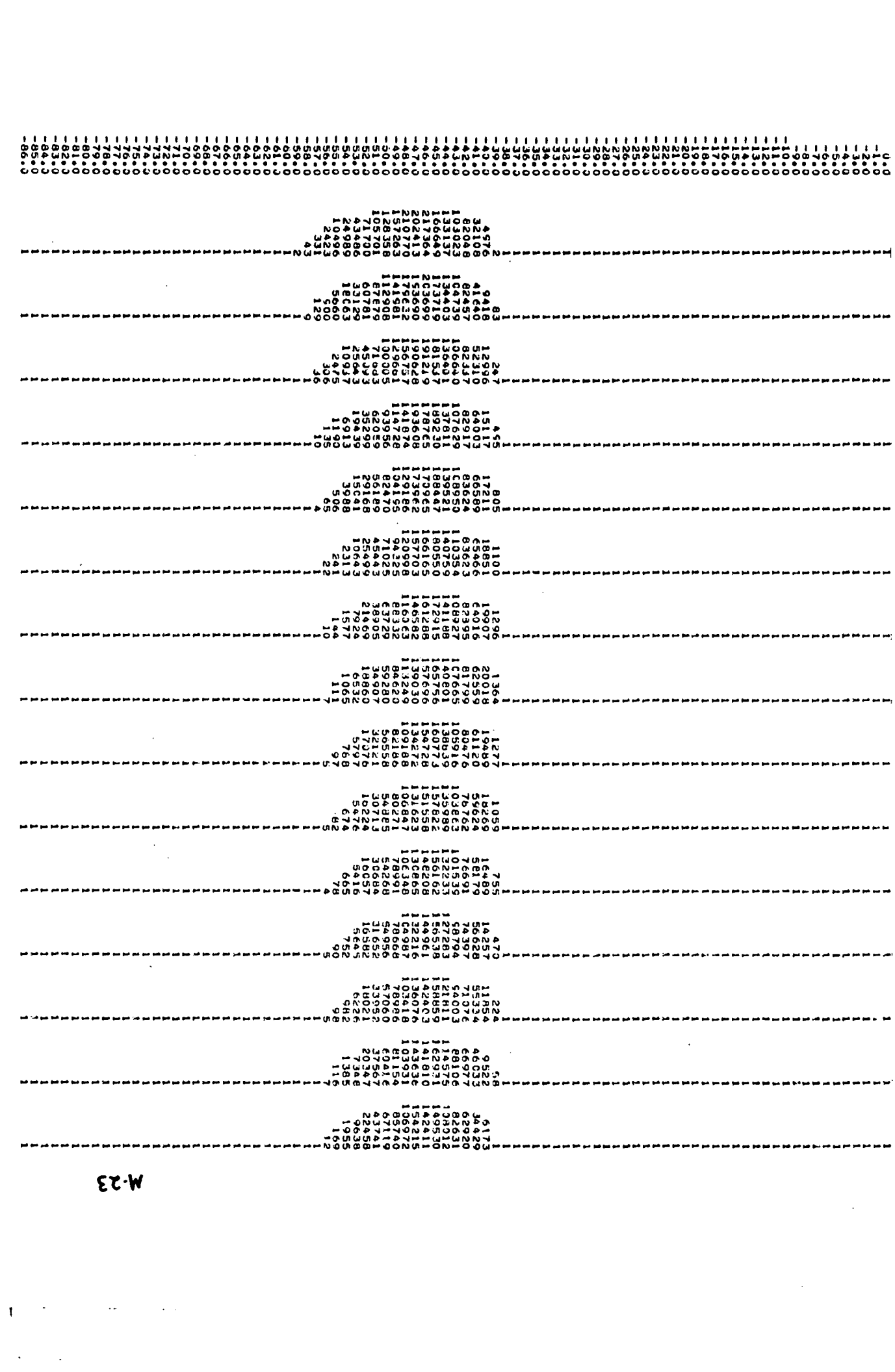
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72.0	11052	13005	15275	17874	19558	20962	22102	23461	24915	26492	28183	29391	30043	30823	31621
71.0	26425	29329	32277	33523	35083	36793	38575	40467	42490	44651	46937	49345	51878	54548	57763
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69.0	75952	79628	83624	87205	90717	94226	97712	100727	99876	99380	99223	99298	99682	100335	101172
68.0	110413	111235	112658	114613	116042	117001	119292	119751	121275	122898	124706	126621	128703	128277	127570
67.0	135824	140038	144447	146118	146031	146123	146321	147041	147952	148665	149637	150762	152091	153688	154980
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65.0	221846	219937	212846	207021	202010	197519	193595	190275	187389	185032	182879	181294	179970	179043	178459
64.0	213597	212528	211480	209509	207744	205958	204426	202699	201646	200597	199746	192313	183043	176805	170252
63.0	227990	227099	214121	202310	191972	182657	174215	166558	159595	153064	147137	141588	136021	132394	128504
62.0	175941	167508	160385	153185	147137	141159	136008	131092	126550	122382	118627	113769	109077	104917	101063
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58.0	41290	34144	28575	24078	20312	17261	14699	12626	10248	7187	5049	3464	2372	1589	1056
57.0	9407	6119	3975	2566	1605	977	572	302	147	53	4	1	1	1	1
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19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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9.0	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1
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6.0	4	3	2	1	1	1	1	1	1	1	1	1	1	1	1
5.0	5	4	3	2	1	1	1	1	1	1	1	1	1	1	1
4.0	6	5	3	2	1	1	1	1	1	1	1	1	1	1	1
3.0	8	5	4	2	1	1	1	1	1	1	1	1	1	1	1
2.0	9	6	4	3	1	1	1	1	1	1	1	1	1	1	1
1.0	10	7	4	3	1	1	1	1	1	1	1	1	1	1	1

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-11.0	93	15	1	1	1	1	1	1	1	1	1	1	1	1	1
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-13.0	468	91	2	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1070	260	9	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	2803	810	44	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	7272	2397	322	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	12703	5507	1138	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	22183	10446	3183	16	1	1	1	1	1	1	1	1	1	1	1
-19.0	29013	16064	6199	382	1	1	1	1	1	1	1	1	1	1	1
-20.0	43471	26187	11439	1833	1	1	1	1	1	1	1	1	1	1	1
-21.0	33269	20960	10441	2864	1	1	1	1	1	1	1	1	1	1	1
-22.0	34693	22042	11580	4300	82	1	1	1	1	1	1	1	1	1	1
-23.0	47554	31065	17550	7124	478	1	1	1	1	1	1	1	1	1	1
-24.0	41893	29255	17374	7463	1586	1	1	1	1	1	1	1	1	1	1
-25.0	44526	31609	19660	9994	3249	1	1	1	1	1	1	1	1	1	1
-26.0	52609	38651	26396	14541	5117	1	1	1	1	1	1	1	1	1	1
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-28.0	45731	34668	23412	14234	6517	1028	1	1	1	1	1	1	1	1	1
-29.0	37657	28377	19219	11199	5173	1341	1	1	1	1	1	1	1	1	1
-30.0	34228	26592	18542	11888	6254	1935	1	1	1	1	1	1	1	1	1
-31.0	29845	22703	15919	9991	5426	2060	102	1	1	1	1	1	1	1	1
-32.0	27029	21448	15634	10847	5883	1952	259	1	1	1	1	1	1	1	1
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-38.0	4782	3746	2988	2277	1411	702	269	101	24	1	1	1	1	1	1
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-40.0	2381	1645	1098	721	454	282	147	59	18	2	1	36	292	942	2155
-41.0	1532	1121	779	499	315	185	94	42	141	632	1874	4855	11658	18582	24528
-42.0	1097	774	539	363	230	263	862	2270	5655	13732	23353	32870	46171	65605	81666
-43.0	804	590	1	1125	2498	5528	12121	25021	35056	50582	74391	95911	96610	98880	101109
-44.0	1446	2833	5434	10825	22336	34620	48396	70125	105341	110593	112621	117249	119973	123571	128593
-45.0	9896	18648	34507	45762	63495	91567	124881	126284	128949	135353	139305	145126	153547	155992	160913
-46.0	43562	57723	79528	112938	139536	141641	145449	151787	157798	165807	174376	179216	188765	199828	213573
-47.0	94552	134247	153911	156682	161492	168004	175067	184941	193824	201043	215024	230736	252361	231998	217136
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-49.0	189370	197730	206580	218197	228873	239008	254857	279567	302780	277777	259096	246108	240585	215800	181555
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-56.0	379239	357376	300042	255445	220990	186412	159116	130176	99427	74224	53105	35645	23146	12590	6365
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-60.0	203826	177588	141478	109920	78849	53575	35569	21252	9974	3238	862	216	47	8	1
-61.0	176086	136407	107712	74578	51071	33455	18821	8506	2600	636	168	27	4	1	1
-62.0	132198	104633	70708	49408	31952	16951	7170	2172	510	143	18	1	1	1	1
-63.0	99511	67583	47607	30694	15612	6247	1865	439	112	14	1	1	1	1	1
-64.0	65355	45657	29502	14538	5624	1671	394	96	13	1	1	1	1	1	1
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ALTITUDE= 900.0 ENERGY= 0.500 ELECTRONS

	90.0	93.0	96.0	99.0	102.0	105.0	108.0	111.0	114.0	117.0	120.0	123.0	126.0	129.0	132.0
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78.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
77.0	14	17	20	23	26	29	32	35	37	38	37	36	34	30	27
76.0	161	178	195	214	233	252	270	285	297	302	302	307	299	284	263
75.0	1337	1523	1682	1801	1927	2057	2168	2254	2339	2399	2437	2439	2405	2340	2239
74.0	6784	7163	7558	7965	8374	8780	9193	9576	9909	10173	10345	10405	10352	10353	9960
73.0	18542	19244	19925	20609	21294	21952	22541	23098	23617	24082	24440	24657	24658	24632	24503
72.0	32412	33320	34331	35444	36409	37395	38366	39279	40116	40848	41518	42075	42550	42770	42690
71.0	59391	59623	60093	60673	61319	62080	62913	63818	64754	65688	66553	67365	68022	68414	68309
70.0	82892	84918	87009	89484	91736	91575	91503	91678	92011	92489	93052	93758	94491	95204	95851
69.0	102348	103795	105518	107093	108233	109604	111028	112647	114273	115723	117660	119334	121087	122420	123141
68.0	127246	127314	127847	128844	130212	131783	133446	135299	137662	140018	141940	143920	145821	147540	149039
67.0	157166	160244	163214	166774	169646	173682	177949	183669	183777	182586	181874	181131	181048	181724	182920
66.0	174543	172322	170593	168914	167855	167161	167112	167452	168242	169338	170884	172795	174793	177158	179536
65.0	178575	179005	179924	180656	181085	181836	182676	184047	185545	181970	178958	177085	176269	175975	176496
64.0	164601	159238	154139	149550	145587	142283	139151	136398	133850	132048	130915	130395	130395	130989	131672
63.0	124891	121738	118703	116118	113811	111800	110295	109086	107163	105248	103935	103023	102685	102891	103300
62.0	97906	94656	92545	90458	88316	86480	84923	83624	82620	81799	80654	79978	79680	79559	79766
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58.0	666	414	259	125	54	11	1	1	1	1	1	1	1	1	1
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ALTITUDE ... ENERGY ... ...

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-77.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-78.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-79.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-80.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-81.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-82.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-83.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-84.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-85.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-86.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

ALTITUDE: 900 KM

ELECTRONS: E > 1.0 MEV

INNER ZONE MODEL: AE6 (SOLAR MAX)
OUTER ZONE MODEL: AE17-HI

ALTITUDE= 900.0 ENERGY= 1.000 ELECTRONS

	-180.0	-177.0	-174.0	-171.0	-168.0	-165.0	-162.0	-159.0	-156.0	-153.0	-150.0	-147.0	-144.0	-141.0	-138.0
81.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
80.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
79.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
78.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
77.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
76.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
74.0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	77	21	5	2	1	1	1	1	1	1	1	1	1	1	1
72.0	873	461	222	83	15	4	1	1	1	1	1	1	1	1	1
71.0	3892	2701	1532	870	387	168	32	5	2	1	1	1	1	1	1
70.0	9223	7332	5549	3862	2324	1171	540	198	40	5	1	1	1	1	1
69.0	19698	16968	12303	9080	6993	4635	2964	1356	576	193	28	4	1	1	1
68.0	34072	29005	23701	19597	15723	10608	7555	5004	3103	1276	493	147	14	2	1
67.0	53281	45464	38747	33897	27144	21272	17400	11105	7592	4811	2627	1037	324	67	5
66.0	74246	68228	63818	51994	43091	35681	28882	21688	17152	10657	7096	4151	1933	723	187
65.0	105056	97601	83930	73640	66666	56949	44970	36230	28675	20972	15061	9292	6108	3315	1216
64.0	105098	102454	102947	107713	91713	77198	67926	57523	44366	35160	26524	19353	12696	7758	4530
63.0	110557	111801	108247	105278	102947	105916	94757	77518	67010	54752	41848	33073	23241	17377	9919
62.0	87509	96730	104413	114947	110479	106817	103029	105578	92501	74566	64756	49488	37086	28232	19610
61.0	65275	73511	81531	92395	101285	111658	111053	106517	102397	106231	85701	70035	59343	43172	33081
60.0	47620	53219	60101	69579	78291	89472	100542	112100	109748	104349	101645	99736	77451	64746	49859
59.0	35722	39393	44415	50849	57663	67292	77405	89926	101469	114390	107093	101117	102181	87577	69342
58.0	8567	14735	26420	37726	42808	49416	57086	67869	78639	92562	103871	110219	103828	98949	99444
57.0	727	2446	6264	11496	21946	37092	42553	49999	58431	70697	82060	95819	108429	105411	98490
56.0	1	31	319	1479	5348	10526	21683	37421	43555	51645	61496	73715	87317	99635	107916
55.0	1	1	1	1	200	1216	5332	11427	25539	38579	45653	54286	66010	78225	92649
54.0	1	1	1	1	1	1	211	1551	6290	14265	33898	40678	48864	58444	70942
53.0	1	1	1	1	1	1	1	6	364	2599	8269	19817	36577	43427	52268
52.0	1	1	1	1	1	1	1	1	1	46	775	4914	11873	30098	39074
51.0	1	1	1	1	1	1	1	1	1	1	1	188	1807	7246	18482
50.0	1	1	1	1	1	1	1	1	1	1	1	1	16	576	4485
49.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	142
48.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
47.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
46.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
45.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
44.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
43.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
42.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
41.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
40.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
39.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
38.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
37.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
36.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
35.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
34.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
33.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1
10.0	3	3	2	2	2	1	1	1	1	1	1	1	1	1	1
9.0	3	3	3	3	3	2	2	1	1	1	1	1	1	1	1
8.0	3	3	3	3	3	3	3	2	2	2	1	1	1	1	1
7.0	3	3	3	4	4	4	3	3	3	3	2	2	1	1	1
6.0	3	3	3	4	4	4	4	4	4	4	3	3	2	2	1
5.0	2	3	3	4	4	4	4	4	4	5	4	4	3	3	3
4.0	2	2	3	3	4	4	5	5	5	5	5	5	5	4	4
3.0	2	2	3	3	3	4	5	5	6	6	6	6	6	6	5
2.0	2	2	2	3	3	3	4	4	5	5	6	6	7	7	7
1.0	1	2	2	3	3	3	4	4	5	5	6	6	7	7	8

ORIGINAL PAGE IS
OF POOR QUALITY

-1.0	1	1	1	2	2	3	3	4	4	5	5	6	7	7	8
-2.0	1	1	1	1	2	2	3	3	4	5	5	6	6	7	8
-3.0	1	1	1	1	1	1	2	3	3	4	5	6	6	7	8
-4.0	1	1	1	1	1	1	1	2	3	4	5	6	6	7	8
-5.0	1	1	1	1	1	1	1	1	2	3	4	5	6	7	8
-6.0	1	1	1	1	1	1	1	1	1	2	3	4	5	6	8
-7.0	1	1	1	1	1	1	1	1	1	1	2	3	4	5	7
-8.0	1	1	1	1	1	1	1	1	1	1	1	2	3	4	5
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	2	3	4
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-33.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-34.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-35.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-36.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-37.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-38.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-39.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-40.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-41.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-42.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-43.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-44.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-45.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-46.0	43	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-47.0	3170	330	1	1	1	1	1	1	1	1	1	1	1	1	1
-48.0	14396	5498	1214	71	1	1	1	1	1	1	1	1	1	1	1
-49.0	30768	24498	9998	3452	365	1	1	1	1	1	1	1	1	1	1
-50.0	42367	34564	29303	14839	5571	1167	65	1	1	1	1	1	1	1	1
-51.0	57729	47057	39218	31864	23957	8733	3067	309	1	1	1	1	1	1	1
-52.0	75558	63408	52618	43145	35043	29774	13602	5155	895	44	1	1	1	1	1
-53.0	87519	81093	69811	58463	47420	39030	32331	20913	7762	2345	206	1	1	1	1
-54.0	77891	84241	86894	76555	63512	52063	42882	35067	29887	11808	4537	679	19	1	1
-55.0	78165	78737	81886	91731	81222	69008	57660	46722	38314	32271	17571	6785	1700	150	1
-56.0	54232	70561	81477	81023	90147	86164	74987	62625	51045	42184	34997	25401	10026	4012	496
-57.0	40687	51454	65132	65267	81546	87656	91762	80649	67359	56062	45872	37906	32253	14529	5839
-58.0	26768	35611	50257	60934	80943	82750	85975	95562	84885	72786	61648	49937	41414	34993	21874
-59.0	16202	25021	32311	47626	57657	74712	84944	85371	94356	89916	78802	66149	54663	45544	38069
-60.0	8697	15074	21914	30165	43534	54943	70021	88665	85743	93643	95705	84493	71205	59995	49639
-61.0	4267	7393	14309	19771	28761	40329	53636	66691	89566	86988	92073	100997	89172	76902	66057
-62.0	1391	3605	6539	12463	18264	28007	36971	53172	63931	83159	88995	91211	99917	84877	83925
-63.0	269	1063	3129	5977	10800	17266	26432	34497	50128	60947	77876	81619	91249	99276	101567
-64.0	14	201	830	2771	5625	9691	16389	24365	32678	46575	59080	73687	86271	92295	99117
-65.0	1	8	165	755	2563	5252	8901	15906	22456	31371	43556	57820	70109	92423	94432
-66.0	1	1	6	144	681	2159	4777	8081	15384	21014	30549	40990	57136	67236	85363
-67.0	1	1	1	5	120	592	1863	4287	7457	13717	19614	29509	38082	53296	64517
-68.0	1	1	1	1	4	93	483	1600	3928	6987	12237	18528	27389	35474	48486
-69.0	1	1	1	1	1	4	74	410	1387	3586	6547	10966	17660	24987	33592
-70.0	1	1	1	1	1	1	3	60	348	1230	3250	6165	9796	16922	22634
-71.0	1	1	1	1	1	1	1	3	47	296	1041	2958	5545	8748	14988
-72.0	1	1	1	1	1	1	1	1	3	38	249	897	2484	4762	7717
-73.0	1	1	1	1	1	1	1	1	1	3	26	204	765	1940	4054
-74.0	1	1	1	1	1	1	1	1	1	1	2	16	169	568	1462
-75.0	1	1	1	1	1	1	1	1	1	1	1	2	10	113	384
-76.0	1	1	1	1	1	1	1	1	1	1	1	1	2	6	60
-77.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
-78.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-79.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-80.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-81.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-82.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-83.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-84.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-85.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-86.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

ALTITUDE= 900.0 ENERGY= 1.000 ELECTRONS

	-135.0	-132.0	-129.0	-126.0	-123.0	-120.0	-117.0	-114.0	-111.0	-108.0	-105.0	-102.0	-99.0	-96.0	-93.0
81.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
80.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
79.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
78.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
77.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
76.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
72.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
71.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
70.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
69.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
68.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
67.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
66.0	18	2	1	1	1	1	1	1	1	1	1	1	1	1	1
65.0	363	71	4	1	1	1	1	1	1	1	1	1	1	1	1
64.0	2069	726	180	14	2	1	1	1	1	1	1	1	1	1	1
63.0	6312	3245	1131	326	55	4	1	1	1	1	1	1	1	1	1
62.0	13012	7515	4293	1847	633	159	12	2	1	1	1	1	1	1	1
61.0	22956	17093	9347	5784	2975	1021	293	54	4	1	1	1	1	1	1
60.0	36502	27255	18891	11862	7063	3938	1721	624	170	20	3	1	1	1	1
59.0	58459	41674	31797	21632	15663	8725	5370	2916	1086	370	116	13	3	1	1
58.0	75474	62510	47506	34418	25724	17850	11261	6915	4081	2084	853	315	124	25	6
57.0	99334	83657	66593	54954	38950	30355	20491	15459	8929	5981	3476	1823	877	419	207
56.0	100422	95992	95181	71750	59661	44785	33080	25144	17884	12366	7774	5560	3537	2226	1275
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ORIGINAL PAGE IS
OF POOR QUALITY

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ALTITUDE= 900.0 ENERGY= 1.000 ELECTRONS

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21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	11
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	38	51
13.0	1	1	1	1	1	1	1	1	1	1	1	1	55	105	86
12.0	1	1	1	1	1	1	1	1	1	1	8	79	154	142	102
11.0	1	1	1	1	1	1	1	1	1	7	85	188	220	188	148
10.0	1	1	1	1	1	1	1	1	9	63	184	257	271	235	193
9.0	1	1	1	1	1	1	1	6	59	155	261	315	300	276	213
8.0	1	1	1	1	1	1	2	32	103	218	302	360	351	313	248
7.0	1	1	1	1	1	1	12	55	137	255	378	415	400	337	274
6.0	1	1	1	1	1	8	38	94	196	334	426	463	432	395	314
5.0	1	1	1	1	5	19	61	139	242	381	478	495	475	435	363
4.0	1	1	1	4	11	29	82	167	285	408	513	550	531	478	413
3.0	1	1	3	8	21	49	98	191	327	444	567	628	586	516	491
2.0	1	3	5	14	32	66	131	223	352	515	603	640	643	615	554
1.0	2	5	9	19	39	81	151	263	392	557	644	701	723	718	650

ORIGINAL PAGE IS
OF POOR QUALITY

0.0	3	7	14	27	50	94	175	295	425	574	727	790	843	829	770
-1.0	5	10	19	35	66	116	205	334	493	670	790	883	969	944	901
-2.0	11	14	25	43	78	141	233	371	559	739	928	1074	1111	1117	1074
-3.0	21	21	34	56	93	166	275	438	625	847	1049	1179	1266	1280	1338
-4.0	37	38	42	69	117	197	321	499	728	963	1206	1345	1457	1596	1676
-5.0	55	60	67	92	144	226	367	565	805	1062	1364	1554	1750	1938	2055
-6.0	77	88	104	123	188	279	423	639	935	1227	1575	1870	2137	2331	2357
-7.0	106	122	148	181	238	360	535	760	1089	1453	1823	2196	2594	2726	2557
-8.0	128	167	204	249	327	446	656	921	1293	1751	2213	2655	2962	2867	2867
-9.0	140	187	263	342	436	591	814	1159	1594	2129	2606	3005	3131	3157	3216
-10.0	152	201	231	389	552	780	1055	1418	1861	2427	2872	3177	3328	3561	3622
-11.0	164	223	309	422	596	843	1165	1558	2014	2516	2946	3372	3650	3915	4092
-12.0	181	245	337	457	659	917	1240	1654	2189	2699	3187	3691	4144	4450	4641
-13.0	200	268	366	509	725	1028	1354	1802	2368	2889	3465	4055	4579	5074	5454
-14.0	219	292	419	564	793	1107	1515	1959	2562	3192	3889	4464	5074	5646	5275
-15.0	248	328	440	622	864	1222	1632	2184	2767	3523	4237	5073	5817	6719	7523
-16.0	269	366	506	683	970	1367	1796	2349	3067	3885	4761	5784	6714	7838	9189
-17.0	309	407	557	772	1084	1473	1965	2592	3394	4285	5366	6637	7818	9292	11702
-18.0	295	460	634	867	1208	1628	2209	2945	3758	4884	6080	7677	9249	11838	14479
-19.0	262	439	696	977	1315	1802	2487	3252	4303	5598	7159	9031	11743	14625	17153
-20.0	249	411	667	1081	1520	2070	2831	3746	4993	6515	8560	11392	14463	17013	19496
-21.0	247	397	654	1064	1662	2425	3337	4460	5995	8121	10763	13947	16755	19251	20500
-22.0	250	417	679	1107	1766	2731	3858	5485	7442	9841	13098	16314	18773	20187	23452
-23.0	277	451	747	1210	1862	2961	4517	6692	9312	12912	15694	17437	19804	23457	30296
-24.0	311	522	854	1343	2145	3322	5137	7710	10701	12946	15581	18426	22523	29411	40908
-25.0	368	612	987	1534	2506	3774	5895	7917	10603	13253	17000	21744	28332	40279	47344
-26.0	429	715	1130	1865	2828	4177	6375	8642	11554	15361	20617	27732	37091	46262	52571
-27.0	507	819	1332	2034	3102	4683	6932	9724	13453	18977	25714	34823	43289	50053	60045
-28.0	617	970	1525	2402	3571	5441	7875	11669	16343	23388	32241	39483	47752	57463	72588
-29.0	781	1224	1896	3009	4545	6752	9957	14344	20402	28092	34812	43300	53759	70557	92274
-30.0	988	1623	2534	3876	5717	8645	12765	17419	22929	29931	39001	50128	65770	87550	98731
-31.0	1262	1939	3041	4643	6881	9895	13753	19055	26131	34810	46395	62196	79827	93211	112285
-32.0	1651	2556	3722	5508	7927	11361	16415	22827	30783	42728	57972	72268	86641	105138	135165
-33.0	2201	3339	5096	7282	10161	14720	20621	28007	39364	51716	63964	78467	98005	127823	129790
-34.0	2827	4366	6484	9537	13814	19259	25502	34060	44368	56679	71706	92376	115983	119875	117186
-35.0	3860	5579	7894	11259	15749	21238	28903	38733	51085	66622	86365	104994	105757	109043	114567
-36.0	5465	7684	10641	14807	20104	26820	35803	48184	62431	78891	85560	92383	96902	107928	96583
-37.0	5387	8281	12382	17849	24708	32974	41926	50849	60146	69427	77896	87976	94826	85236	77325
-38.0	6381	9276	12658	17375	23279	30231	38276	46923	56708	67524	79337	77497	73849	70077	63927
-39.0	5720	9433	14600	19730	25264	32104	40297	49589	56172	59706	61186	61774	61639	56797	48753
-40.0	5107	7734	11232	15629	20958	26832	33088	38751	43561	47494	51063	52316	47731	42245	37351
-41.0	3682	6590	10761	14179	18092	22988	27797	32737	37617	39729	39264	37611	35285	32536	30017
-42.0	2087	3681	6523	9878	13497	17521	21084	24263	26543	27917	28290	27879	27186	26186	24990
-43.0	1637	2655	4190	6226	8722	11568	14359	16738	18896	20404	21352	21909	22609	20958	17937
-44.0	1542	2417	3518	4896	6578	8510	10540	12578	14452	16269	17782	17957	16515	14989	13411
-45.0	833	1645	2879	4488	6170	7691	9284	11236	12292	12860	12883	12467	11864	11236	10723
-46.0	617	1060	1684	2584	3661	4953	6065	7132	8049	8632	8956	9101	9154	9090	7305
-47.0	570	915	1342	1915	2584	3370	4188	5001	5805	6444	7057	7513	6547	5589	4717
-48.0	260	550	1038	1654	2328	2895	3561	4256	4793	4887	4757	4438	4059	3663	3324
-49.0	172	318	519	806	1179	1605	2019	2368	2646	2809	2860	2831	2778	2495	1975
-50.0	91	223	378	550	753	983	1251	1482	1703	1881	2021	1879	1658	1421	1218
-51.0	49	101	183	305	462	635	812	957	1050	1095	1091	1047	979	913	822
-52.0	28	68	114	172	244	335	419	505	581	636	671	688	650	603	557
-53.0	19	41	71	112	165	226	285	338	385	416	432	437	435	433	400
-54.0	11	29	50	76	108	140	178	214	246	277	300	320	301	267	229
-55.0	8	14	25	43	67	95	124	150	166	176	179	175	167	154	143
-56.0	5	10	16	24	34	46	59	72	84	93	99	103	105	106	106
-57.0	3	7	12	18	24	31	39	48	56	62	69	75	80	82	78
-58.0	3	5	8	13	18	25	31	38	44	49	52	54	55	55	55
-59.0	2	4	7	9	13	16	20	25	29	32	35	38	40	42	43
-60.0	2	3	5	7	10	13	16	19	22	25	28	31	33	36	40
-61.0	2	3	5	6	8	11	13	16	19	21	24	27	30	33	36
-62.0	1	3	4	6	7	9	11	14	16	19	22	25	27	30	35
-63.0	2	3	5	6	7	8	10	11	13	16	20	25	31	39	48
-64.0	39	3	5	7	9	11	13	16	19	23	28	34	41	50	1
-65.0	1895	918	464	242	137	83	59	1	1	98	173	311	572	1070	2039
-66.0	12541	9202	6918	4389	3087	2400	2028	1916	2001	2327	2925	4035	6941	9650	13031
-67.0	45324	32872	24825	19724	16575	14641	13587	13237	13466	14418	16179	18829	22923	29180	38472
-68.0	57405	54362	52433	51289	50543	50249	48141	45965	46279	48835	54245	56678	59368	62779	66740
-69.0	75183	71431	68685	66687	64645	63630	63230	63518	64317	65886	68140	70923	74744	79207	94179
-70.0	98880	94889	91600	87362	84660	83289	82722	82921	83767	85434	87868	91237	95749	101477	108687
-71.0	124210	121308	117877	113198	110544	108892	108115	108071	109110	111060	113889	117581	122547	128313	135853
-72.0	133075	139203	143594	139417	137247	136329	136301	136284	137575	139666	142306	146123	150689	156096	162929
-73.0	125708	128327	131421	134943	138738	142587	146245	149696	152550	154685	156431	157906	158945	159603	159759
-74.0	115413	126907	129790	130923	133096	135072	137146	139097	141144	143129	144959	146799	148554	150371	152384
-75.0	83474	90422	98263	105254	111870	117971	123402	127994	131505	133766	134709	134559	133220	130881	127455
-76.0	59041	66896	74141	79301	82499	85833	89035	91922	94315	96053	97079	97431	96882	95824	94330
-77.0	39978	43619	47021	50680	54414	58221	61559	64339	66616	68088	68727	68655	67889	66432	64197
-78.0	23990	26841	29633	32459	35289	37970	40461	42587	44139	44903	45344	45431	45041	43976	42231
-79.0	12334	14642	16849	19194	21552	22909	24073	25115	25933	26532	26864	26934	26741	26258	25615
-80.0	5773	7004	8080	8853	9744	10610	11447	12194	12787	13212	13431	13437	13268	12870	12295
-81.0	1709	2249	2908	3690	4146	4555	4953	5315	5608	5815	5927	5933	5837	5640	5364
-82.0	299	419	563	739	944	1096	1238	1376	1477	1551	1579	1581	1545	1477	1380
-83.0	13	25	44	67	98	130	167	201	218	231	238	239	233	220	204
-84.0	1	1	2	3	3	4	4	5	6	6	7	7	7	6	6
-85.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
[illegible]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

ALTITUDE= 900.0 ENERGY= 1.000 ELECTRONS

	-45.0	-42.0	-39.0	-36.0	-33.0	-30.0	-27.0	-24.0	-21.0	-18.0	-15.0	-12.0	-9.0	-6.0	-3.0
81.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
80.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
79.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
78.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
77.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
76.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
72.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
71.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
70.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
69.0	1	1	1	1	1	1	1	1	1	1	1	2	5	27	130
68.0	1	1	1	1	1	1	1	1	1	2	6	44	203	495	1111
67.0	1	1	1	1	1	1	1	2	6	49	232	631	1418	2857	4647
66.0	1	1	1	1	1	1	5	42	228	674	1581	3472	5437	8154	10881
65.0	1	1	1	1	3	24	193	606	1554	3666	5859	8767	12435	17974	22902
64.0	1	1	2	11	119	460	1341	3327	5760	8917	13224	19777	24901	31227	39322
63.0	1	5	54	302	1032	2627	5173	8537	13002	20202	25776	33259	41716	49474	60243
62.0	20	190	679	1876	4346	7763	11788	19080	25442	33654	42882	52093	65863	76356	84664
61.0	399	1272	3504	6373	10087	16749	23764	32198	42237	52449	66353	78258	89511	104876	121417
60.0	2253	4635	8409	13754	21456	29334	39984	50409	67010	78361	91582	109192	121195	119550	121027
59.0	7009	10824	18597	25732	36306	46573	62028	76448	90082	109588	120325	120154	122096	126212	132516
58.0	14619	21892	30807	41858	55004	73251	85300	105610	119942	119765	122362	127828	127610	115436	105951
57.0	26016	37000	47803	66337	78906	98371	120348	118183	121393	127516	125432	113119	100366	88558	79082
56.0	41503	55544	72782	87552	111396	116314	119460	125246	125910	112466	98227	86275	74485	64496	57830
55.0	65775	77816	98934	115957	116762	121440	129288	113617	99300	85807	72812	62516	54563	47393	42376
54.0	85272	109681	112910	117294	125083	117201	103914	87309	73825	62259	53436	45875	40959	21676	12161
53.0	111941	112955	118760	123132	108428	91335	79063	63900	54352	45769	38094	18520	9512	4543	1348
52.0	113435	121382	113404	96873	82867	67842	57239	47150	40621	18632	8879	3314	752	121	1
51.0	120011	105513	88805	74618	60684	50216	42198	22539	9778	3403	631	62	1	1	1
50.0	97360	81259	66377	55222	44955	32253	12836	5117	846	72	1	1	1	1	1
49.0	74549	60056	49592	41186	19663	7788	1646	162	1	1	1	1	1	1	1
48.0	55015	44960	34384	12747	4258	510	5	1	1	1	1	1	1	1	1
47.0	41235	22998	8547	1788	131	1	1	1	1	1	1	1	1	1	1
46.0	15661	5926	750	14	1	1	1	1	1	1	1	1	1	1	1
45.0	3135	289	1	1	1	1	1	1	1	1	1	1	1	1	1
44.0	90	1	1	1	1	1	1	1	1	1	1	1	1	1	1
43.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
42.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
41.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
40.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
39.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
38.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
37.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
36.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
35.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
34.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
33.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	2	4	5	6	5	4	3	2	1	1	1	1	1	1	1
15.0	20	15	14	11	9	6	5	4	2	1	1	2	3	3	4
14.0	36	33	26	19	14	10	8	6	4	3	5	6	7	7	7
13.0	65	49	34	28	20	15	11	8	6	9	11	13	13	13	12
12.0	93	64	49	38	26	21	16	12	13	17	20	21	21	20	17
11.0	110	81	66	48	37	28	22	19	26	30	33	32	30	28	24
10.0	127	109	77	59	48	37	31	34	43	47	49	47	42	38	32
9.0	160	122	96	76	63	51	45	57	67	69	69	64	55	45	36
8.0	186	151	118	95	78	67	75	89	98	98	94	77	64	51	41
7.0	220	174	139	117	102	95	115	135	136	127	106	87	72	59	48
6.0	255	206	174	152	140	146	173	191	174	147	123	102	85	69	56
5.0	303	252	213	194	191	217	250	241	202	170	147	122	99	82	67
4.0	360	308	259	250	262	312	325	281	241	203	175	146	119	100	83
3.0	427	359	331	338	375	430	371	326	288	241	208	174	146	120	101
2.0	498	456	443	473	547	498	435	391	343	296	255	214	183	150	123
1.0	580	558	572	642	651	591	527	470	406	363	313	263	226	190	134

ORIGINAL PAGE IS
OF POOR QUALITY

0.0	712	716	797	851	761	676	617	564	504	446	383	333	276	195	142
-1.0	876	960	1040	980	886	804	750	678	623	549	484	404	294	204	141
-2.0	1140	1235	1169	1118	1071	991	914	847	772	698	602	426	303	210	149
-3.0	1474	1490	1378	1311	1239	1184	1117	1020	945	875	655	495	359	258	179
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PRECEDING PAGE BLANK NOT FILMED

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-66.0	200436	196594	194611	186758	158088	134228	116030	92133	72675	57945	43365	32627	21733	13785	8320
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-72.0	66423	55931	44416	35161	27601	18757	12971	8525	5242	2369	978	318	61	7	1
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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 1.000 ELECTRONS

	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0	75.0	78.0	81.0	84.0	87.0
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76.0	1	1	1	1	1	1	1	1	1	1	1	2	2	2	3
75.0	1	1	1	2	3	4	5	7	10	15	23	34	48	64	85
74.0	8	16	30	54	88	136	178	217	258	312	380	460	552	646	752
73.0	244	334	459	611	803	939	1101	1292	1516	1759	2016	2300	2615	2927	3089
72.0	1522	1921	2438	2958	3421	3803	4113	4505	4930	5356	5902	6285	6516	6776	7032
71.0	5177	6009	6885	7311	7817	8423	9022	9660	10342	11072	11850	12673	13544	14467	15591
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69.0	21665	23108	24653	26178	27633	29090	30560	31925	32289	32733	33292	33923	34646	35460	36326
68.0	35829	37177	38740	40480	42288	43540	45091	46671	48279	49923	51653	53452	55312	55541	55506
67.0	54516	57972	61545	63300	63726	64187	64594	65421	66372	67057	67923	68815	69798	70901	71798
66.0	74912	76680	78959	81329	83748	86376	88983	91618	94319	96446	94686	92202	89844	87871	86263
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62.0	95673	91270	86406	82050	78213	74449	71213	68150	65339	62773	60468	57667	54973	52577	50349
61.0	72560	69029	65353	61408	58012	55017	52286	49813	47496	45433	43528	41692	39931	38151	36402
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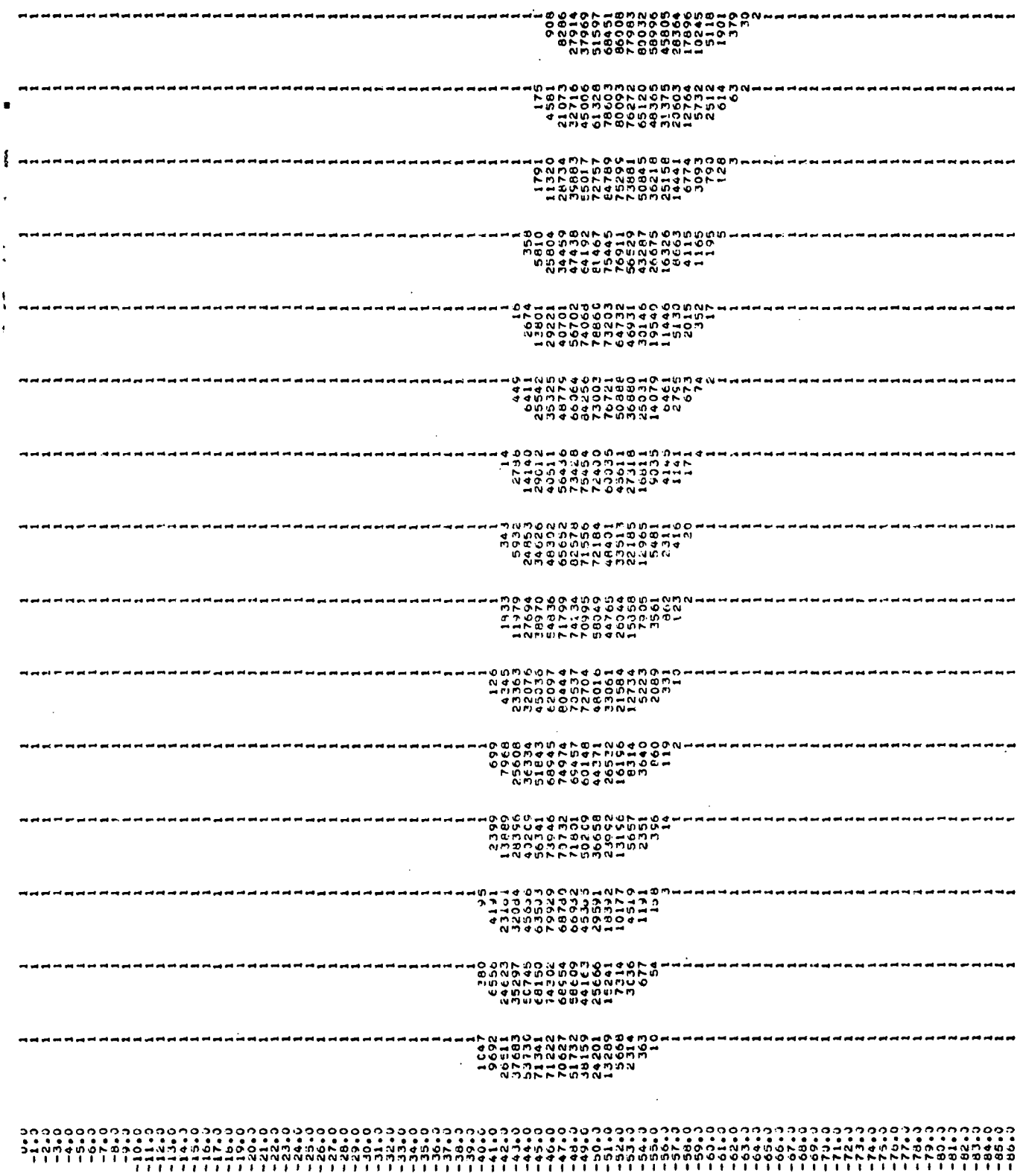
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C-3

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-79.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-80.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-81.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-82.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-83.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-84.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-85.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-86.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

ALTITUDE= 900.0 ENERGY= 1.000 ELECTRONS

	135.0	138.0	141.0	144.0	147.0	150.0	153.0	156.0	159.0	162.0	165.0	168.0	171.0	174.0	177.0
81.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
80.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
79.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
78.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
77.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
76.0	5	4	4	3	3	2	2	1	1	1	1	1	1	1	1
75.0	201	184	166	141	102	69	42	23	11	6	3	2	1	1	1
74.0	1315	1225	1140	1012	899	788	627	468	333	235	167	84	33	10	4
73.0	4819	4643	4432	4181	3882	3553	3161	2704	2153	1627	1155	883	579	330	190
72.0	10454	10198	9852	9426	8944	8406	7779	7196	6633	5718	4752	3910	3169	2141	1370
71.0	19779	19629	19401	19039	18583	18041	17503	16915	15046	12907	10968	9219	7450	6756	5174
70.0	32509	32498	32358	32067	31608	31234	29999	28133	26151	23932	21631	19640	18035	15161	11715
69.0	52360	52198	51645	50774	49690	48097	45894	43790	41697	38648	35903	33700	30921	26910	22939
68.0	68740	68585	68881	68622	68255	67347	66362	64790	63240	61675	59082	53498	47831	42918	37864
67.0	89485	90425	91717	93256	95354	97824	97436	93677	88960	83851	78453	73671	69612	65787	62833
66.0	89702	90766	91657	92516	93212	93745	94127	94708	95391	96463	98273	101225	101576	92204	82287
65.0	91159	92352	93925	95498	98198	101126	104669	104885	104279	103750	103247	102650	100800	100175	101380
64.0	70942	71631	72873	74563	76741	79216	82903	87079	90241	94118	98543	104755	111856	109132	106862
63.0	51555	52355	53382	54673	56225	58422	61218	64479	68040	71728	76313	81946	89185	95753	102163
62.0	36997	37466	38078	39026	40368	41968	43909	46288	48766	51748	55706	60490	66432	72504	79145
61.0	24905	24692	25252	26556	28476	31136	32471	33980	35756	37915	40663	43877	48074	52446	58098
60.0	5081	5098	5303	5598	6056	6775	7846	9409	11815	15430	20734	29076	35537	38646	42660
59.0	199	189	196	227	294	404	585	902	1477	2531	4577	6443	9445	14329	22730
58.0	1	1	1	1	1	1	1	1	1	23	108	319	854	2200	5219
57.0	1	1	1	1	1	1	1	1	1	1	1	1	1	18	176
56.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
55.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
54.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
53.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
52.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
51.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
50.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
49.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
48.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
47.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
46.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
45.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
44.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
43.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
42.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
41.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
40.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
39.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
38.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
37.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
36.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
35.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
34.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
33.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2
11.0	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2
10.0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	3
9.0	1	1	1	1	1	1	1	1	1	1	1	2	2	2	3
8.0	1	1	1	1	1	1	1	1	1	1	1	2	2	2	3
7.0	1	1	1	1	1	1	1	1	1	1	1	2	2	2	3
6.0	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1



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ALTITUDE: 900KM

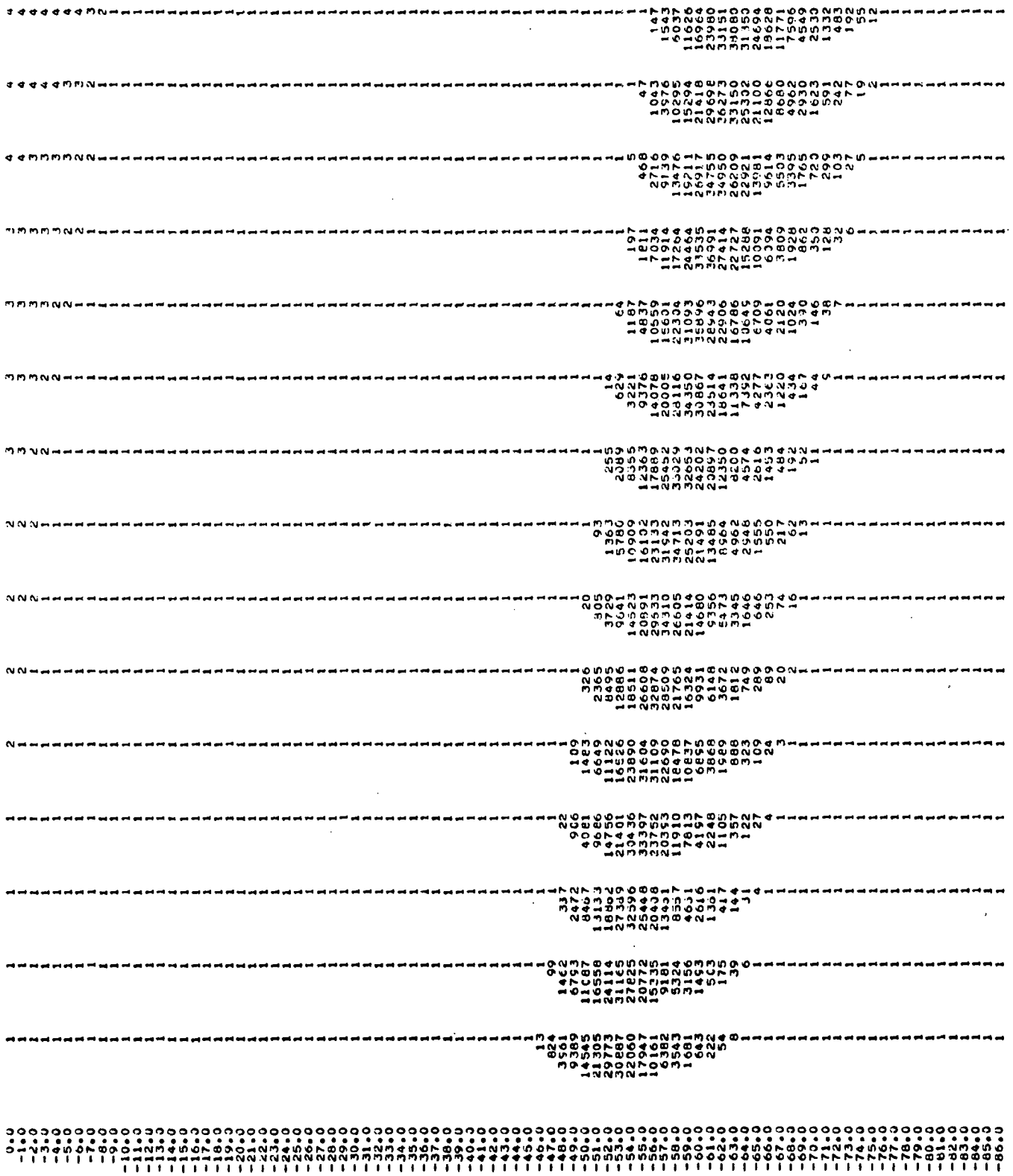
ELECTRONS: E>2.0 MEV

INNER ZONE MODEL: AE6 (SOLAR MAX)

OUTER ZONE MODEL: AE17-HI

ALTITUDE= 900.0 ENERGY= 2.000 ELECTRONS

	-180.0	-177.0	-174.0	-171.0	-168.0	-165.0	-162.0	-159.0	-156.0	-153.0	-150.0	-147.0	-144.0	-141.0	-138.0
81.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
80.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
79.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
78.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
77.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
76.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
72.0	31	14	6	1	1	1	1	1	1	1	1	1	1	1	1
71.0	179	112	57	30	12	5	1	1	1	1	1	1	1	1	1
70.0	625	433	290	177	94	43	18	5	1	1	1	1	1	1	1
69.0	1998	1569	973	605	400	227	125	50	19	5	1	1	1	1	1
68.0	4497	3538	2627	1970	1394	771	452	252	132	47	16	4	1	1	1
67.0	8435	6775	5393	4430	3201	2230	1523	827	456	239	109	37	10	1	1
66.0	14374	12252	10709	8130	6258	4789	3502	2328	1590	779	411	196	76	25	5
65.0	25253	21894	17388	14061	11656	9177	6648	4901	3470	2191	1391	634	332	145	45
64.0	31712	28600	26473	25419	19815	15187	12072	9306	6531	4703	3108	1946	1020	477	222
63.0	41321	39413	35046	31021	27606	25705	20790	15315	11615	8731	5996	4295	2566	1641	710
62.0	34145	38286	40010	42552	37351	32661	28081	25651	20117	14422	11139	7645	5122	3433	2011
61.0	23225	26899	30970	36521	39410	41786	38019	32473	27514	25292	18041	13040	9777	6357	4356
60.0	15562	18096	21302	24997	29290	34990	39242	41859	37020	30826	26417	22792	15540	11365	7790
59.0	9989	11666	13949	17027	19950	24014	28845	35264	39348	42275	34614	28569	25106	18867	13058
58.0	2290	4016	7299	10840	13159	16316	19713	24278	29655	36935	39704	38890	31782	26243	22977
57.0	211	662	1948	3107	6041	10530	13953	16637	20314	25538	31386	37780	40540	34957	28070
56.0	1	9	96	413	1393	2835	5967	10721	13576	17445	21642	27220	34124	38341	38424
55.0	1	1	1	1	61	344	1389	3088	7052	11330	14669	18647	23646	29696	36639
54.0	1	1	1	1	1	1	65	432	1656	3866	9405	12371	16357	20469	26104
53.0	1	1	1	1	1	1	1	1	109	701	2238	5448	10565	13815	17920
52.0	1	1	1	1	1	1	1	1	1	14	224	1277	3219	8338	11836
51.0	1	1	1	1	1	1	1	1	1	1	1	58	497	1928	5078
50.0	1	1	1	1	1	1	1	1	1	1	1	1	4	169	1164
49.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	44
48.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
47.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
46.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
45.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
44.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
43.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
42.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
41.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
40.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
39.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
38.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
37.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
36.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
35.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
34.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
33.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1
7.0	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1
6.0	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1
5.0	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1
4.0	2	2	2	2	2	2	3	3	3	2	2	2	2	2	1
3.0	1	2	2	2	2	2	2	3	3	3	3	3	2	2	2
2.0	1	1	2	2	2	2	2	3	3	3	3	3	3	3	3
1.0	1	1	1	2	2	2	2	3	3	3	3	3	3	4	4



ORIGINAL PAGE IS
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ALTITUDE= 900.0 ENERGY= 2.000 . ELECTRONS

	-135.0	-132.0	-129.0	-126.0	-123.0	-120.0	-117.0	-114.0	-111.0	-108.0	-105.0	-102.0	-99.0	-96.0	-93.0
81.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
80.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
79.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
78.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
77.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
76.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
72.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
71.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
70.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
69.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
68.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
67.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
66.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
65.0	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1
64.0	83	25	5	1	1	1	1	1	1	1	1	1	1	1	1
63.0	350	142	41	10	1	1	1	1	1	1	1	1	1	1	1
62.0	1071	461	208	73	21	4	1	1	1	1	1	1	1	1	1
61.0	2551	1619	654	314	127	37	9	1	1	1	1	1	1	1	1
60.0	5067	3301	1921	948	425	187	66	21	5	1	1	1	1	1	1
59.0	9670	6133	4152	2370	1438	592	287	125	40	11	3	1	1	1	1
58.0	15168	10556	7370	4725	3074	1790	890	418	198	84	30	9	3	1	1
57.0	24423	17965	12346	9002	5631	3928	2227	1425	625	336	159	72	31	13	6
56.0	30696	25315	21756	14257	10344	6871	4524	2995	1824	1035	506	304	163	91	48
55.0	39326	33606	26761	23580	16749	11672	8512	5524	3961	2438	1637	935	516	346	225
54.0	33197	37270	36581	28974	24254	20268	13683	10046	7035	4756	3530	2263	1645	1084	701
53.0	24892	29118	35622	38481	32124	25592	22903	16496	11727	9254	6347	4531	3548	2493	1912
52.0	15832	19567	25706	32789	36331	35120	27843	23611	20625	14355	10818	8645	6332	4795	4044
51.0	10228	13453	17569	22637	28610	34645	37365	31408	25382	22574	18532	13614	10790	9275	7327
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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 2.000 ELECTRONS

	-90.0	-87.0	-84.0	-81.0	-78.0	-75.0	-72.0	-69.0	-66.0	-63.0	-60.0	-57.0	-54.0	-51.0	-48.0
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-71.0	48001	47630	46894	44283	42657	41497	40861	40602	40905	41675	42899	44574	46907	49679	53394	
-72.0	44984	49484	53155	52378	52195	52360	52634	53012	53635	54429	55343	56520	57862	59382	61249	
-73.0	34392	36998	39601	42303	44850	47272	49445	51272	52652	53628	53719	53143	52068	50677		
-74.0	25803	29650	31590	33056	34682	36273	37520	38585	39419	40042	40436	40524	40398	40037	39487	
-75.0	15325	17339	19569	21808	23831	25721	27395	28785	29809	30384	30504	30242	29577	28578	27216	
-76.0	9063	10658	12215	13458	14388	15309	16166	16911	17494	17879	18036	18000	17693	17231	16629	
-77.0	5205	5864	6535	7239	7957	8691	9332	9860	10284	10561	10667	10612	10393	10039	9549	
-78.0	2448	2893	3332	3794	4264	4715	5139	5499	5758	5880	5938	5926	5824	5598	5279	
-79.0	887	1145	1417	1716	2031	2220	2381	2522	2639	2724	2762	2758	2714	2623	2511	
-80.0	289	375	456	527	607	688	768	839	897	937	956	952	930	885	823	
-81.0	65	86	119	157	182	206	230	253	271	284	290	289	282	269	251	
-82.0	9	13	18	25	33	39	44	50	54	57	58	58	57	54	50	
-83.0	1	1	1	1	2	3	4	6	6	7	7	7	7	6	6	
-84.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-85.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-86.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

ALTITUDE= 900.0 ENERGY= 2.000 ELECTRONS

	-45.0	-42.0	-39.0	-36.0	-33.0	-30.0	-27.0	-24.0	-21.0	-18.0	-15.0	-12.0	-9.0	-6.0	-3.0
81.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
80.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
79.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
78.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
77.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
76.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
72.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
71.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
70.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
69.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
68.0	1	1	1	1	1	1	1	1	1	1	1	1	6	16	39
67.0	1	1	1	1	1	1	1	1	1	1	7	21	51	117	216
66.0	1	1	1	1	1	1	1	1	6	22	59	147	267	469	740
65.0	1	1	1	1	1	1	5	20	58	156	295	526	903	1589	2305
64.0	1	1	1	1	2	14	48	140	289	542	990	1835	2606	3674	5137
63.0	1	1	1	9	36	106	251	507	969	1898	2754	4028	5593	7174	9407
62.0	1	5	23	72	199	440	841	1748	2703	4106	5818	7709	10587	13340	16082
61.0	12	46	149	335	670	1444	2455	3863	5711	7796	11125	13990	17580	22650	28504
60.0	90	233	504	1076	2121	3385	5307	7399	10861	14073	18249	24141	29462	31982	35730
59.0	386	758	1713	2802	4641	6649	9039	13522	17844	24328	29678	32968	37376	42584	48938
58.0	1193	2225	3687	5726	8412	12507	16460	23049	29369	32996	38015	44225	47810	44897	41959
57.0	2905	4838	6979	10845	14565	20649	28634	31925	37387	44276	47255	44432	39118	33061	28426
56.0	5742	8622	12698	17433	25344	33180	35632	42580	47268	44217	38050	31637	26478	22243	19339
55.0	10849	14570	21240	28392	32894	39559	47904	44282	38651	31641	25777	21383	17785	14450	12115
54.0	17085	25246	29778	35933	44181	44888	41172	32548	26230	21291	17264	13734	11396	5930	3265
53.0	27480	31990	39156	46021	42817	34787	28350	22038	17724	13715	10560	5043	2527	1197	379
52.0	36654	42672	43536	38780	30466	23777	19166	14402	11375	5075	2352	888	218	37	1
51.0	44714	41595	33793	26706	20757	15913	12117	6174	2602	911	184	19	1	1	1
50.0	38388	30018	23281	18388	13522	9914	3455	1338	244	22	1	1	1	1	1
49.0	26629	20646	15805	11795	5370	2053	458	50	1	1	1	1	1	1	1
48.0	18538	13735	9523	3434	1123	151	1	1	1	1	1	1	1	1	1
47.0	12085	6317	2273	495	40	1	1	1	1	1	1	1	1	1	1
46.0	4261	1545	218	4	1	1	1	1	1	1	1	1	1	1	1
45.0	840	87	1	1	1	1	1	1	1	1	1	1	1	1	1
44.0	28	1	1	1	1	1	1	1	1	1	1	1	1	1	1
43.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
42.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
41.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
40.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
39.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
38.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
37.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
36.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
35.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
34.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
33.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	2	2	1	1	1	1	1	1	1	1	2	2	3	3	3
14.0	5	4	3	2	1	1	1	1	1	1	1	1	1	1	2
13.0	9	6	4	3	2	1	1	1	1	1	2	2	3	3	3
12.0	13	8	6	4	3	2	2	1	1	2	4	4	5	5	5
11.0	15	10	8	5	4	3	2	2	4	5	6	7	8	8	7
10.0	17	14	9	6	6	4	4	4	7	9	11	11	11	11	10
9.0	21	15	11	9	8	6	5	8	12	14	16	16	15	14	12
8.0	24	18	13	12	10	8	10	14	18	21	22	20	18	15	13
7.0	28	20	17	15	13	12	16	22	26	27	25	22	20	17	15
6.0	31	24	22	19	18	19	26	33	34	32	29	26	23	20	17
5.0	35	30	27	25	24	29	39	43	40	36	33	30	25	22	19
4.0	41	38	33	32	33	44	52	50	47	42	38	34	29	25	22
3.0	51	45	42	43	47	62	60	57	54	48	43	38	33	28	24
2.0	61	57	56	59	71	73	70	67	62	55	49	43	37	31	26
1.0	72	70	72	81	86	86	82	77	73	63	56	48	41	35	26

ORIGINAL PAGE IS
OF POOR QUALITY

0.0	89	90	100	106	101	97	93	88	80	72	62	54	45	35	29
-1.0	109	120	131	123	116	112	108	99	91	80	70	58	42	29	20
-2.0	141	156	148	140	136	131	123	114	103	91	77	63	38	26	18
-3.0	183	184	171	164	155	149	140	128	116	109	82	62	45	33	23
-4.0	225	208	197	191	183	177	164	154	147	127	98	75	57	42	30
-5.0	247	235	226	221	214	204	201	193	179	147	119	95	73	58	43
-6.0	274	265	259	257	252	246	241	245	220	183	147	123	101	81	62
-7.0	303	300	296	299	299	301	306	303	258	227	200	171	142	116	93
-8.0	346	349	350	350	360	372	389	376	336	301	269	239	202	175	147
-9.0	396	395	405	414	439	478	494	457	434	405	372	340	306	276	236
-10.0	455	462	485	513	547	622	615	601	559	536	511	495	461	441	386
-11.0	524	546	572	643	705	799	782	735	744	743	747	752	763	705	617
-12.0	607	651	708	807	950	992	944	954	1001	1059	1142	1180	1121	1069	979
-13.0	709	788	887	1039	1217	1137	1201	1290	1443	1624	1693	1632	1642	1638	1615
-14.0	839	966	1118	1414	1364	1399	1571	1812	2141	2168	2272	2409	2527	2599	2508
-15.0	1012	1218	1524	1589	1557	1869	2147	2598	2734	2914	3167	3594	3784	3729	3588
-16.0	1271	1577	1810	1764	2101	2459	3019	3333	3647	4096	4718	4917	5096	5249	5431
-17.0	1603	1901	1981	2196	2736	3495	3387	4210	4846	5909	6213	6485	7226	7963	7151
-18.0	1953	2131	2342	2984	3731	4373	4785	5699	7044	7380	8045	9193	9622	8660	8072
-19.0	2221	2402	3017	3959	4924	5302	6298	7636	8523	9415	11090	11261	10216	9985	9998
-20.0	2474	3021	4114	5293	5744	6775	8382	9694	10793	12705	12782	11859	11786	10788	9003
-21.0	3048	4140	5502	6181	7069	9010	10498	11846	14262	14478	13473	13631	11674	9791	8706
-22.0	3995	5589	6379	7283	9090	11444	12719	14915	16138	15031	15253	12716	10078	9652	7255
-23.0	5560	6431	7553	9266	12216	13162	15787	18024	16480	16582	13960	11697	10169	7372	5575
-24.0	6528	7612	9241	12342	13811	16125	19780	17813	17749	15431	12694	10764	7708	5758	4469
-25.0	7609	9144	12099	14068	16445	20605	19196	18839	17025	13764	11628	8251	6061	4663	3835
-26.0	9119	11555	14494	16407	20232	20689	19772	18821	15033	12757	8999	6492	4944	4060	3170
-27.0	11384	14469	16327	20014	22045	20583	20878	16324	13973	9982	7038	5304	4309	3215	2357
-28.0	14280	16001	19693	23147	21360	21795	17865	14956	11033	7725	5742	4590	3361	2413	1834
-29.0	15547	18992	24192	22131	22136	19355	15920	12271	8588	6266	4904	3597	2524	1895	1521
-30.0	18210	23298	22516	22390	20891	16935	13689	9603	6652	5283	3894	2692	1991	1581	1021
-31.0	22464	22743	22291	22203	17883	15206	10650	7519	5711	4276	2915	2114	1660	1023	642
-32.0	22191	21939	23219	18743	16101	11654	8266	6156	4739	3200	2274	1757	1063	648	430
-33.0	21310	22662	19231	16541	12631	9046	6048	5261	3548	2456	1861	1142	679	438	281
-34.0	21971	19310	16679	13442	9762	7104	5575	3904	2672	1979	1259	729	457	284	167
-35.0	18627	16517	13941	10294	7527	5867	4274	2910	2115	1416	799	487	297	169	105
-36.0	15978	13587	10535	7812	6083	4620	3160	2261	1609	893	528	321	178	107	72
-37.0	13490	10443	7909	6199	4916	3395	2495	1838	998	579	358	191	112	74	51
-38.0	9967	7733	6175	5096	3577	2527	1929	1116	637	399	209	119	76	52	38
-39.0	7266	5574	5075	3652	2608	1982	1235	700	432	231	128	80	54	39	27
-40.0	5584	4862	3608	2624	2005	1337	762	462	256	139	85	56	40	28	18
-41.0	4537	3414	2555	1986	1406	810	489	283	152	90	59	41	28	19	13
-42.0	3079	2396	1913	1415	836	508	307	164	96	62	43	30	19	13	9
-43.0	2158	1778	1359	825	511	323	174	101	65	44	31	20	13	9	7
-44.0	1592	1228	774	454	326	179	104	67	45	32	20	13	9	7	6
-45.0	1041	682	456	313	176	104	68	46	33	21	14	10	7	6	5
-46.0	565	401	282	164	100	67	45	34	21	14	10	7	6	5	4
-47.0	334	237	145	92	63	44	33	21	14	10	7	6	5	4	3
-48.0	184	120	81	57	41	31	21	14	9	7	6	5	4	3	4
-49.0	92	68	50	37	29	19	13	9	7	5	4	4	3	4	5
-50.0	54	41	32	26	18	12	8	6	5	4	4	3	4	5	6
-51.0	32	27	21	15	11	8	6	5	4	3	3	3	5	6	8
-52.0	21	17	12	9	7	5	4	4	3	3	3	4	6	8	13
-53.0	12	9	7	6	5	4	3	3	3	3	4	6	8	13	21
-54.0	7	6	5	4	3	3	3	2	3	4	5	7	13	21	153
-55.0	4	4	3	3	3	2	2	3	4	5	7	12	20	165	662
-56.0	3	3	2	2	2	2	3	4	5	7	12	20	181	713	2287
-57.0	2	2	2	2	2	2	3	4	7	12	19	203	786	2549	5854
-58.0	1	1	1	2	2	3	4	7	11	19	241	898	2893	6262	12083
-59.0	1	1	2	2	3	4	7	12	19	307	1083	3424	6805	13200	22845
-60.0	1	2	2	3	5	8	12	95	419	1394	4001	7577	14831	23286	28705
-61.0	2	2	3	5	8	13	176	634	1961	4664	8755	17130	23942	29570	36451
-62.0	3	4	6	9	90	347	1064	2972	5713	10684	20380	24802	30654	37386	44713
-63.0	5	8	73	259	735	1958	4194	7467	13761	21400	26006	32275	38521	46199	55302
-64.0	114	302	728	1733	3602	6040	10546	18992	22865	27752	33977	40183	48350	57375	64916
-65.0	1094	2185	3721	5868	9545	16249	20948	25007	30426	35924	42532	50711	60171	70992	74851
-66.0	4805	6596	10580	16758	20111	23606	28154	33230	36737	45911	53816	63849	70977	75240	72219
-67.0	14745	18118	20522	23607	27553	31942	36645	42795	49773	58248	67655	71376	75989	67013	59318
-68.0	22445	25210	28737	32148	36388	41806	47897	55230	64413	68373	72380	69166	61606	55028	49210
-69.0	31140	34288	38165	42995	48126	54673	62923	66174	69709	69336	62313	56069	50413	45856	39244
-70.0	42453	46244	51178	57160	62082	64794	68052	66972	61021	55511	50298	46012	41922	33550	26722
-71.0	57886	59697	61923	64541	67146	62236	57601	53044	48659	45020	42203	34617	28025	22803	18690
-72.0	63494	61857	58705	55555	52139	48647	45582	42667	40267	33541	27766	23035	19177	15504	13023
-73.0	49028	47173	45198	43284	41499	39914	35441	30286	25798	21983	18654	15507	12307	9742	7708
-74.0	38842	38095	36075	32468	28871	25522	22440	19643	17147	14376	11713	9507	7707	6067	4502
-75.0	25655	23873	22040	20159	18245	16533	14469	12262	10334	8604	7222	5781	4422	3381	2587
-76.0	15926	15174	13807	12393	10991	9633	8360	7275	6237	5012	3558	3142	2438	1601	1048
-77.0	8551	8325	7631	7046	6447	5579	4678	3885	3229	2691	1982	1378	951	650	433
-78.0	4900	4480	4032	3597	3185	2803	2427	1846	1384	1026	744	549	372	247	152
-79.0	2377	2144	1849	1558	1287	1044	826	652	517	377	270	193	115	67	40
-80.0	749	674	597	525	440	356	281	219	163	108	70	46	26	13	7
-81.0	230	207	183	150	116	88	65	48	34	20	12	7	2	1	1
-82.0	45	40	33	25	19	14	10	7	3	1	1	1	1	1	1
-83.0	4	3	2	1	1	1	1	1	1	1	1	1	1	1	1
-84.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-85.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-86.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

ALTITUDE= 900.0 ENERGY= 2.000 ELECTRONS

	0.0	3.0	6.0	9.0	12.0	15.0	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0
81.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
80.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
79.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
78.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
77.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
76.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	2	5
72.0	1	1	1	1	1	1	1	1	1	5	8	13	22	32	43
71.0	1	1	1	1	1	4	8	16	30	44	66	96	140	175	214
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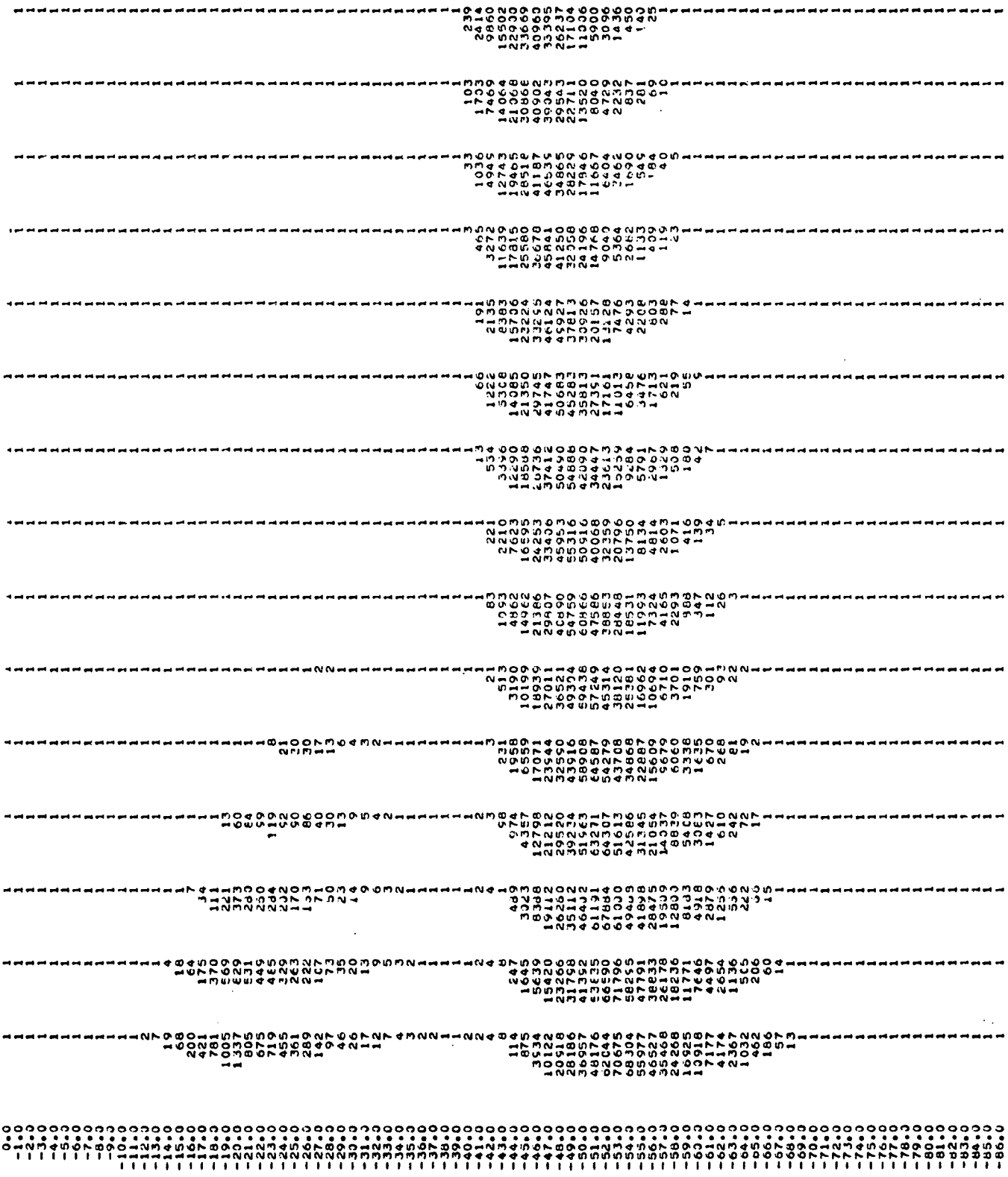
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ORIGINAL PAGE IS
OF POOR QUALITY

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-49.0	13292	10500	9083	7175	5863	4903	4323	3957	3731	3623	3606	3691	3918	4341	4990
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ALTITUDE= 900.0 ENERGY= 2.000 ELECTRONS

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ORIGINAL PAGE IS
OF POOR QUALITY

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ALTITUDE: 900KM

ELECTRONS: E >3.0 MEV

INNER ZONE MODEL: AE6 (SOLAR MAX)

OUTER ZONE MODEL: AE17-HI

ALTITUDE= 900.0 ENERGY= 3.000 ELECTRONS

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ORIGINAL PAGE IS
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ORIGINAL PAGE IS
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ALTITUDE= 900.0 ENERGY= 3.000 ELECTRONS

	-135.0	-132.0	-129.0	-126.0	-123.0	-120.0	-117.0	-114.0	-111.0	-108.0	-105.0	-102.0	-99.0	-96.0	-93.0
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-66.0	8187	9731	12484	15676	14457	13224	11735	10412	8836	7794	6588	5666	5037	3230
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-70.0	849	1321	2216	3383	4633	6747	8389	10075	12053	14237	16950	17482	16576	15110
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ALTITUDE= 900.0 ENERGY= 3.000 ELECTRONS

	-90.0	-87.0	-84.0	-81.0	-78.0	-75.0	-72.0	-69.0	-66.0	-63.0	-60.0	-57.0	-54.0	-51.0	-48.0
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ORIGINAL PAGE IS
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ALTITUDE= 900.0 ENERGY= 3.000 ELECTRONS

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ORIGINAL PAGE IS
OF POOR QUALITY

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ORIGINAL PAGE IS
OF POOR QUALITY

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-55.0	888	2189	4062	7618	10540	12630	15398	17287	19922	22326	24354	26525	28034	28759	23946
-56.0	2342	4440	8458	10859	13170	15709	13141	21163	23323	25730	27675	29557	27195	22642	18904
-57.0	4780	9266	11249	13652	15212	18894	21989	24233	25931	28713	30858	29553	21503	19005	15249
-58.0	9527	11503	14038	16628	19558	22526	24993	27585	29616	29382	24539	20592	17203	14408	10274
-59.0	11730	14408	17002	20191	22953	25652	28157	30436	29023	23454	19721	15658	13179	9353	5675
-60.0	14721	17359	20715	24306	26279	28549	31154	26803	22454	19916	15110	12117	8612	6178	4181
-61.0	17751	21157	23690	26775	28956	30596	26608	21531	18187	15405	11170	7972	5757	3738	2301
-62.0	21362	23992	26957	29300	29192	24477	20623	17495	14368	10340	7420	5406	3380	2038	1245
-63.0	24425	27123	29669	27721	24308	19750	16830	13309	9569	6907	4909	3061	1908	1112	576
-64.0	27341	30014	26224	22163	19323	16174	12308	8962	6461	4461	2789	1754	994	519	246
-65.0	29145	24653	20952	17865	15496	11295	8191	6021	4036	2546	1619	891	471	215	83
-66.0	22986	19674	16881	14066	10292	7529	5588	3635	2316	1477	796	429	193	74	27
-67.0	18265	15999	12635	9255	6865	5045	3250	2088	1303	707	391	164	56	24	7
-68.0	14865	11114	8254	6190	4408	2868	1865	1138	625	345	142	59	21	6	1
-69.0	9614	7249	5627	3783	2495	1653	977	545	290	121	52	18	5	1	1
-70.0	6274	4727	3169	2123	1421	820	468	237	102	46	15	4	1	1	1
-71.0	3786	2593	1770	1144	666	395	188	83	37	13	3	1	1	1	1
-72.0	2057	1457	886	630	310	143	66	29	10	2	1	1	1	1	1
-73.0	1064	655	410	219	105	51	21	7	2	1	1	1	1	1	1
-74.0	471	290	146	73	36	14	5	1	1	1	1	1	1	1	1
-75.0	173	91	49	24	10	3	1	1	1	1	1	1	1	1	1
-76.0	55	28	13	5	1	1	1	1	1	1	1	1	1	1	1
-77.0	14	6	2	1	1	1	1	1	1	1	1	1	1	1	1
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-79.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-80.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-83.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-84.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

ALTITUDE= 900.0 ENERGY= 3.000 ELECTRONS

	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0	75.0	78.0	81.0	84.0	87.0
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	1	1	1	1	1	1	1	1	1	2	2	3	4	5	6
72.0	1	2	3	5	7	9	10	13	16	19	23	27	29	32	34
71.0	16	22	29	33	39	45	53	63	75	87	101	117	134	154	179
70.0	81	103	131	165	202	226	246	269	296	322	352	385	420	459	504
69.0	326	390	440	512	588	665	749	833	872	915	965	1017	1073	1133	1196
68.0	976	1070	1174	1289	1416	1533	1669	1804	1945	2093	2250	2417	2591	2763	2719
67.0	2232	2522	2835	3045	3165	3280	3403	3539	3698	3865	4038	4197	4355	4544	4692
66.0	4247	4558	4884	5224	5576	5955	6337	6731	7137	7510	7552	7499	7471	7456	7483
65.0	8203	8491	8532	8605	8701	8794	8898	9016	9137	9277	9424	9589	9767	9956	10185
64.0	10642	11031	11431	11819	12121	12419	12717	13002	13296	13595	13900	13569	13115	12739	12386
63.0	15376	15904	15230	14603	14046	13537	13068	12638	12243	11868	11480	11018	10631	10259	9877
62.0	13635	13044	12400	11804	11282	10769	10326	9904	9516	9161	8840	8411	7994	7621	7272
61.0	10590	10080	9443	8867	8431	7859	7430	7042	6631	6360	6063	5779	5498	5208	4919
60.0	7399	6961	6565	6111	5702	5346	5015	4719	4456	4206	3978	3772	3579	3404	3244
59.0	4905	4584	4290	4026	3778	3156	2626	2204	1854	1583	1333	1127	955	812	690
58.0	1892	1524	1243	1019	836	690	570	474	383	280	205	148	107	76	52
57.0	363	249	171	116	77	50	30	17	8	2	1	1	1	1	1
56.0	9	2	1	1	1	1	1	1	1	1	1	1	1	1	1
55.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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49.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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44.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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40.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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38.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
37.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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35.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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33.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

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-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-21.0	91	65	39	19	6	2	1	1	1	1	1	1	1	1	1	1
-22.0	91	78	56	36	16	6	2	1	1	1	1	1	1	1	1	1
-23.0	88	86	76	59	36	15	5	2	1	1	1	1	1	1	1	1
-24.0	84	87	91	84	63	36	15	5	2	1	1	1	1	1	1	1
-25.0	79	83	96	104	97	63	36	14	4	2	1	1	1	1	1	1
-26.0	73	80	96	114	126	97	63	35	14	4	2	1	1	1	1	1
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-28.0	64	73	91	121	161	146	126	97	63	35	14	4	2	1	1	1
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-32.0	61	69	89	122	178	177	175	170	161	146	126	97	63	35	14	4
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-35.0	61	69	89	122	178	178	178	178	177	175	170	161	146	126	97	63
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-37.0	61	69	89	122	178	178	178	178	178	178	177	175	170	161	146	126
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-41.0	61	69	89	122	178	178	178	178	178	178	178	178	178	178	177	175
-42.0	61	69	89	122	178	178	178	178	178	178	178	178	178	178	178	177
-43.0	61	69	89	122	178	178	178	178	178	178	178	178	178	178	178	178
-44.0	49	108	219	423	815	1357	2174	3250	5221	5038	5564	7375	8011	8810	9300	9300
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-49.0	11692	13078	14382	15908	17244	18374	19478	20474	20728	16606	13451	11054	9401	7335	5302	5302
-50.0	15109	16798	18350	19531	21064	21858	23087	18753	15025	12379	10364	7784	5480	3971	3108	3108
-51.0	19241	20462	22065	23137	24317	21254	17114	13959	11609	8869	6210	4336	3251	2032	1311	1311
-52.0	22720	24134	25322	24104	19740	15953	13238	10625	7388	5096	3713	2272	1427	940	517	517
-53.0	26103	27153	22449	18397	15085	12722	9069	6305	4386	2878	1719	1090	588	313	170	170
-54.0	25443	21079	17370	14427	11366	7872	5446	3795	2241	1372	775	392	206	81	35	35
-55.0	19321	16495	13963	9971	6917	4864	3104	1839	1150	557	280	117	45	17	6	
-56.0	15773	12681	8857	6223	4342	2616	1564	865	431	201	73	30	9	2	1	
-57.0	11359	7979	5542	3716	2241	1361	689	349	142	51	17	4	1	1		
-58.0	7260	5178	3243	1956	1158	570	287	101	39	11	2	1	1	1		
-59.0	4670	2863	1740	984	483	222	79	29	8	1	1	1	1	1		
-60.0	2560	1567	830	423	179	64	21	5	1	1	1	1	1	1		
-61.0	1421	722	356	149	54	17	4	1	1	1	1	1	1	1		
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-66.0	8	1	1	1	1	1	1	1	1	1	1	1	1	1		
-67.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-68.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
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-84.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1		

ALTITUDE= 900.0 ENERGY= 3.000 ELECTRONS

	90.0	93.0	96.0	99.0	102.0	105.0	108.0	111.0	114.0	117.0	120.0	123.0	126.0	129.0	132.0
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	7	8	9	10	11	12	13	14	15	16	17	17	17	17	17
72.0	37	41	45	49	54	58	63	68	73	77	81	83	85	85	84
71.0	198	207	217	227	239	251	265	278	292	304	315	323	329	331	326
70.0	548	598	645	700	752	774	796	819	844	868	891	914	933	947	953
69.0	1266	1342	1422	1534	1619	1710	1796	1838	1972	2041	2138	2210	2265	2330	2337
68.0	2785	2856	2945	3044	3150	3245	3356	3469	3599	3735	3872	4004	4101	4176	4229
67.0	4896	5153	5400	5674	5900	6195	6502	6905	7015	7081	7141	7197	7252	7337	7415
66.0	7518	7591	7696	7823	7985	8122	8286	8449	8659	8866	9097	9332	9520	9726	9951
65.0	10453	10736	11052	11406	11702	12006	12288	12639	12940	12827	12706	12650	12654	12653	12753
64.0	12079	11796	11526	11282	11080	10929	10781	10643	10430	13260	10150	11101	13079	13058	10125
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ORIGINAL PAGE IS
OF POOR QUALITY

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ALTITUDE: 900 KM

ELECTRONS: E > 4.0 MEV

INNER ZONE MODEL: AE6 (SOLAR MAX)
OUTER ZONE MODEL: AE17-HI

ALTITUDE= 900.0 ENERGY= 4.000 ELECTRONS

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65.0	3747	3055	2556	1887	1302	937	603	395	236	117	58	17	6	1	1
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59.0	1413	1555	1841	2321	2826	3520	4399	5599	7026	8897	6608	4830	3798	2537	1545
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ORIGINAL PAGE IS
OF POOR QUALITY

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-46.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-47.0	98	15	1	1	1	1	1	1	1	1	1	1	1	1	1
-48.0	514	181	45	3	1	1	1	1	1	1	1	1	1	1	1
-49.0	1264	891	315	108	16	1	1	1	1	1	1	1	1	1	1
-50.0	2040	1505	1122	532	183	44	3	1	1	1	1	1	1	1	1
-51.0	3222	2391	1791	1303	872	301	98	14	1	1	1	1	1	1	1
-52.0	5027	3734	2782	2061	1508	1122	485	167	35	2	1	1	1	1	1
-53.0	6273	5744	4349	3216	2359	1755	1286	757	264	79	10	1	1	1	1
-54.0	3705	5348	6549	4978	3668	2702	2005	1474	1098	416	143	28	1	1	1
-55.0	2558	3325	4652	6963	5579	4164	3103	2269	1680	1244	631	226	51	7	1
-56.0	1206	2078	3133	4140	6201	6212	4723	3501	2570	1910	1412	522	148	125	22
-57.0	622	1039	1741	3011	3759	5410	6957	5296	3922	2928	2164	1606	1205	515	190
-58.0	278	489	935	1465	2619	3475	4846	7223	5830	4406	3319	2441	1832	1370	789
-59.0	88	229	406	818	1282	2223	3304	4418	6526	6462	4951	3706	2758	2090	1559
-60.0	20	73	173	349	687	1142	1926	3211	4090	5914	7189	5519	4149	3141	2365
-61.0	3	13	63	137	309	580	1040	1712	3022	3809	5340	7750	6098	4653	3579
-62.0	1	2	10	46	113	284	497	971	1503	2598	3592	4975	7018	8835	5283
-63.0	1	1	1	8	33	96	245	433	955	1336	2258	3460	4892	5431	7636
-64.0	1	1	1	1	7	24	82	200	385	739	1222	1987	3375	4175	5809
-65.0	1	1	1	1	1	6	19	75	167	347	644	1126	1753	2931	3903
-66.0	1	1	1	1	1	1	4	15	67	142	320	555	1039	1543	2534
-67.0	1	1	1	1	1	1	1	3	12	51	120	288	483	900	1363
-68.0	1	1	1	1	1	1	1	1	2	10	39	101	240	418	746
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-71.0	1	1	1	1	1	1	1	1	1	1	1	1	6	16	56
-72.0	1	1	1	1	1	1	1	1	1	1	1	1	1	3	12
-73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
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ALTITUDE= 900.0 ENERGY= 4.000 ELECTRONS

	-130.0	-130.0	-125.0	-120.0	-125.0	-120.0	-117.0	-114.0	-111.0	-108.0	-105.0	-102.0	-99.0	-96.0	-93.0
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
72.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
71.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
70.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
69.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
68.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
67.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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63.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
62.0	40	11	2	1	1	1	1	1	1	1	1	1	1	1	1
61.0	150	75	18	5	1	1	1	1	1	1	1	1	1	1	1
60.0	422	226	83	14	10	2	1	1	1	1	1	1	1	1	1
59.0	1024	546	320	139	63	16	5	1	1	1	1	1	1	1	1
58.0	1916	1227	714	384	202	89	31	10	2	1	1	1	1	1	1
57.0	3651	2403	1450	941	495	299	127	53	18	7	1	1	1	1	1
56.0	5534	4045	3087	1782	1148	656	370	197	93	40	13	6	1	1	1
55.0	7750	6444	4918	3933	2210	1361	481	488	306	147	79	34	13	8	3
54.0	9265	6889	7416	5109	3819	2548	1704	1116	684	400	259	132	80	43	21
53.0	9370	8514	8302	7021	5095	4289	3420	2193	1333	804	560	376	251	153	101
52.0	9159	9471	8892	9214	6825	7077	4955	3730	2972	1839	1246	910	589	407	318
51.0	8365	8829	8465	8348	8459	5915	7696	5960	4311	3447	2567	1710	1284	1001	727
50.0	6400	7054	7557	7126	7940	8017	5075	6570	7163	5211	3989	3357	2572	1848	1429
49.0	4181	5438	6021	6523	7796	8406	8249	4258	5584	7065	6576	4963	3977	3430	3093
48.0	1	2924	4197	5399	7094	7514	8051	2701	3579	4641	5993	7314	6569	5170	4367
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44.0	1	1	1	1	1	1	1	1717	1015	283	691	1216	1521	1886	2254
43.0	1	1	1	1	1	1	1	1	2	333	1388	331	717	1136	1421
42.0	1	1	1	1	1	1	1	1	1	1	6	45	149	330	582
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-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-65.0	5217	7271	7656	6171	4838	3893	3091	2522	2051	1673	1202	714	414	249	133
-66.0	3694	4715	6493	8826	7093	5768	4628	3775	3065	2581	2135	1795	1550	985	627
-67.0	2154	3557	4296	5702	7664	8294	6850	5635	4638	3877	3221	2781	2305	2048	1820
-68.0	1223	1940	2939	3845	4972	6592	9429	8197	5910	5783	4878	4209	3576	3152	2821
-69.0	827	1103	1543	2353	3655	4403	5601	7192	9235	9469	7313	5303	5435	4818	4241
-70.0	322	505	866	1318	1897	2874	3958	4730	5952	7428	9264	9224	8033	7231	6401
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-72.0	36	91	175	341	508	803	1249	1643	2250	3155	4158	4757	5595	6976	7631
-73.0	9	23	68	123	236	389	575	864	1273	1635	2151	2959	3529	4452	4983
-74.0	1	6	14	37	88	149	266	411	586	836	1203	1495	1852	2342	2956
-75.0	1	1	2	9	19	49	97	157	260	396	529	712	961	1237	1520
-76.0	1	1	1	1	4	11	22	50	94	140	217	330	438	553	691
-77.0	1	1	1	1	1	1	4	17	19	39	75	110	159	218	298
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ALTITUDE= 900.0 ENERGY= 4.000 ELECTRONS

	-90.0	-87.0	-84.0	-81.0	-78.0	-75.0	-72.0	-69.0	-66.0	-63.0	-60.0	-57.0	-54.0	-51.0	-48.0
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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72.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
71.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
70.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
69.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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ORIGINAL PAGE IS
OF POOR QUALITY

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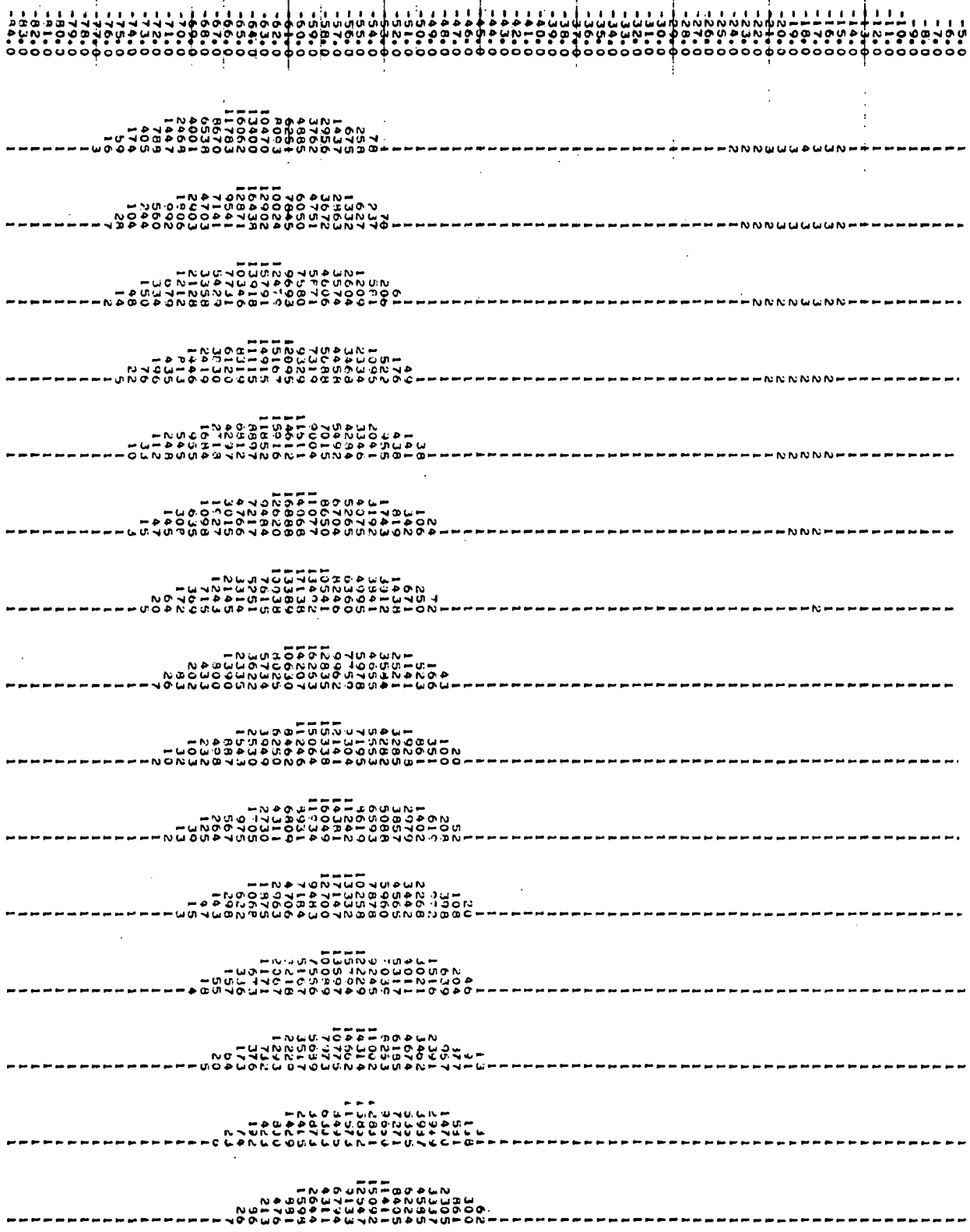
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ALTITUDE= 900.0 ENERGY= 3.000 ELECTRONS

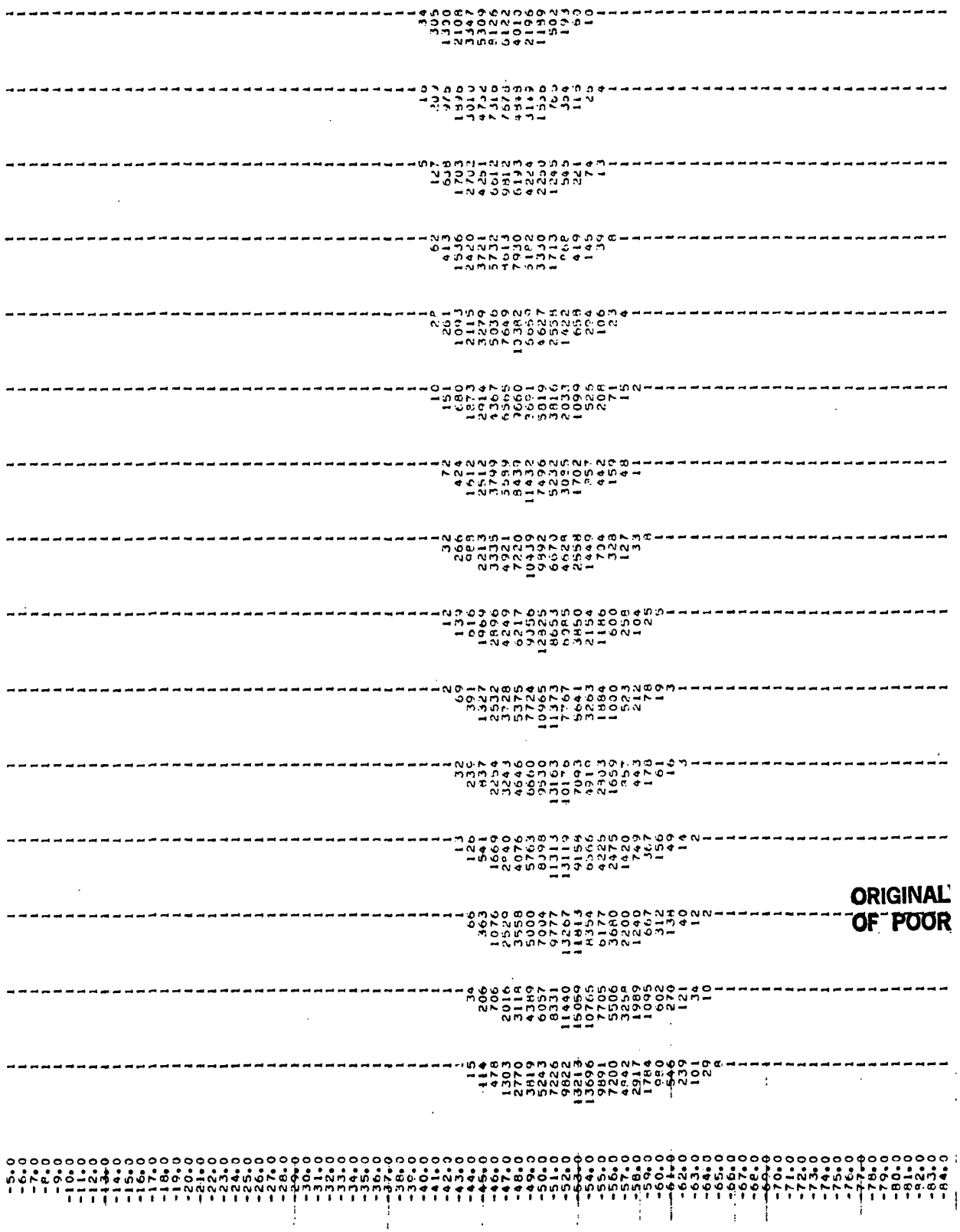
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ORIGINAL PAGE IS
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ALTITUDE= 900.0 ENERGY= 4.000 ELECTRONS

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37.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1



ORIGINAL PAGE
OF POOR QUAL

ALTITUDE= 900.0 MIN ENGY= 4.000 ELECTRONS

	90.0	93.0	96.0	99.0	102.0	105.0	108.0	111.0	114.0	117.0	120.0	123.0	126.0	129.0	132.0
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74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	1	1	1	2	2	2	3	3	4	4	4	4	4	4	4
72.0	11	12	13	15	16	18	20	22	23	25	26	27	28	28	27
71.0	72	76	79	83	88	92	97	102	108	112	117	120	122	123	121
70.0	207	217	226	268	289	297	306	315	324	333	342	350	358	363	365
69.0	484	513	543	586	618	653	686	721	753	779	817	844	873	890	892
68.0	1072	1114	1155	1201	1247	1291	1341	1393	1451	1512	1573	1631	1683	1717	1739
67.0	2058	2142	2202	2435	2545	2689	2939	3035	3098	3144	3184	3223	3263	3304	3344
66.0	3465	3527	3605	3693	3798	3918	4030	4137	4272	4403	4547	4690	4830	4967	5052
65.0	5418	5618	5838	6079	6309	6527	6730	6978	7214	7043	6895	6788	6721	6674	6678
64.0	6143	5892	5654	5435	5246	5084	4930	4787	4632	4508	4410	4335	4281	4257	4252
63.0	3941	3768	3605	3454	3318	3196	3094	3007	2916	2820	2762	2709	2674	2653	2640
62.0	2479	2356	2255	2157	2063	1983	1914	1852	1799	1753	1704	1668	1642	1621	1610
61.0	1526	1444	1378	1309	1254	1204	1163	1122	1090	1064	1036	1017	1003	950	918
60.0	894	770	660	568	496	431	375	329	290	258	233	211	195	182	171
59.0	171	145	123	105	87	68	54	43	34	27	22	17	14	12	10
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-40.0	62	102	141	174	208	234	253	256	250	233	207	174	139
-41.0	432	594	778	981	1060	1079	1082	1069	1047	1013	972	920	865
-42.0	1407	1512	1615	1702	1776	1823	1842	1837	1813	1767	1698	1613	1509
-43.0	2301	2475	2654	2803	2934	3055	3075	3085	3049	2978	2879	2739	2542
-44.0	3707	4005	4326	4603	4863	5002	5077	5101	5042	4931	4769	4543	4284
-45.0	5893	6347	6824	7291	7658	6355	5767	5355	5121	5076	5125	5342	5728
-46.0	8030	6659	5500	4622	4061	3633	3351	3176	3069	3011	2997	3033	3131
-47.0	4864	4072	3531	3254	2650	2214	1932	1757	1646	1601	1626	1728	1837
-48.0	3360	2440	1850	1456	1209	1039	940	883	822	800	816	855	863
-49.0	1579	1221	960	706	538	430	366	324	302	293	293	305	331
-50.0	779	533	385	305	216	155	121	101	90	86	86	92	108
-51.0	349	215	130	67	65	39	25	18	15	14	14	16	20
-52.0	109	67	31	14	9	6	3	2	1	1	1	1	2
-53.0	23	10	5	1	1	1	1	1	1	1	1	1	1
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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 930.0 ENERGY= 4.500 ELECTRONS

	135.0	138.0	141.0	144.0	147.0	150.0	153.0	156.0	159.0	162.0	165.0	168.0	171.0	174.0	177.0
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73.0	4	3	3	2	2	1	1	1	1	1	1	1	1	1	1
72.0	26	24	22	19	17	14	12	10	9	6	3	1	1	1	1
71.0	119	115	112	105	98	89	82	74	55	39	27	17	12	8	4
70.0	365	361	354	343	327	314	284	244	204	165	132	104	83	54	31
69.0	901	890	867	835	796	743	675	612	542	472	407	353	288	210	145
68.0	1748	1742	1712	1677	1631	1546	1462	1367	1265	1167	1059	866	699	557	439
67.0	3378	3404	3422	3424	3421	3414	3293	3097	2702	2387	2066	1786	1514	1311	1135
66.0	5135	5170	5176	5154	5032	4956	4775	4481	4344	4145	3909	3707	3399	2739	2202
65.0	6710	6804	6950	7095	7393	7717	9134	7843	7363	6859	6362	5721	5091	4553	4103
64.0	4283	4319	4403	4530	4703	4903	5219	5585	5951	6423	7032	7782	8711	7643	6636
63.0	2540	2565	2726	2804	2901	3043	3231	3453	3736	4050	4450	4958	5625	6370	7233
62.0	1617	1635	1681	1709	1742	1872	1984	2128	2292	2489	2757	3091	3515	4010	4610
61.0	905	897	918	966	1036	1136	1210	1294	1395	1525	1695	1900	2178	2435	2881
60.0	165	165	172	183	199	226	266	323	413	548	745	1055	1333	1528	1783
59.0	9	9	9	11	13	18	25	36	55	86	142	210	322	503	817
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57.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	8
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| | | |

ALTITUDE: 400 KM

ELECTRONS: E >5.0 MEV

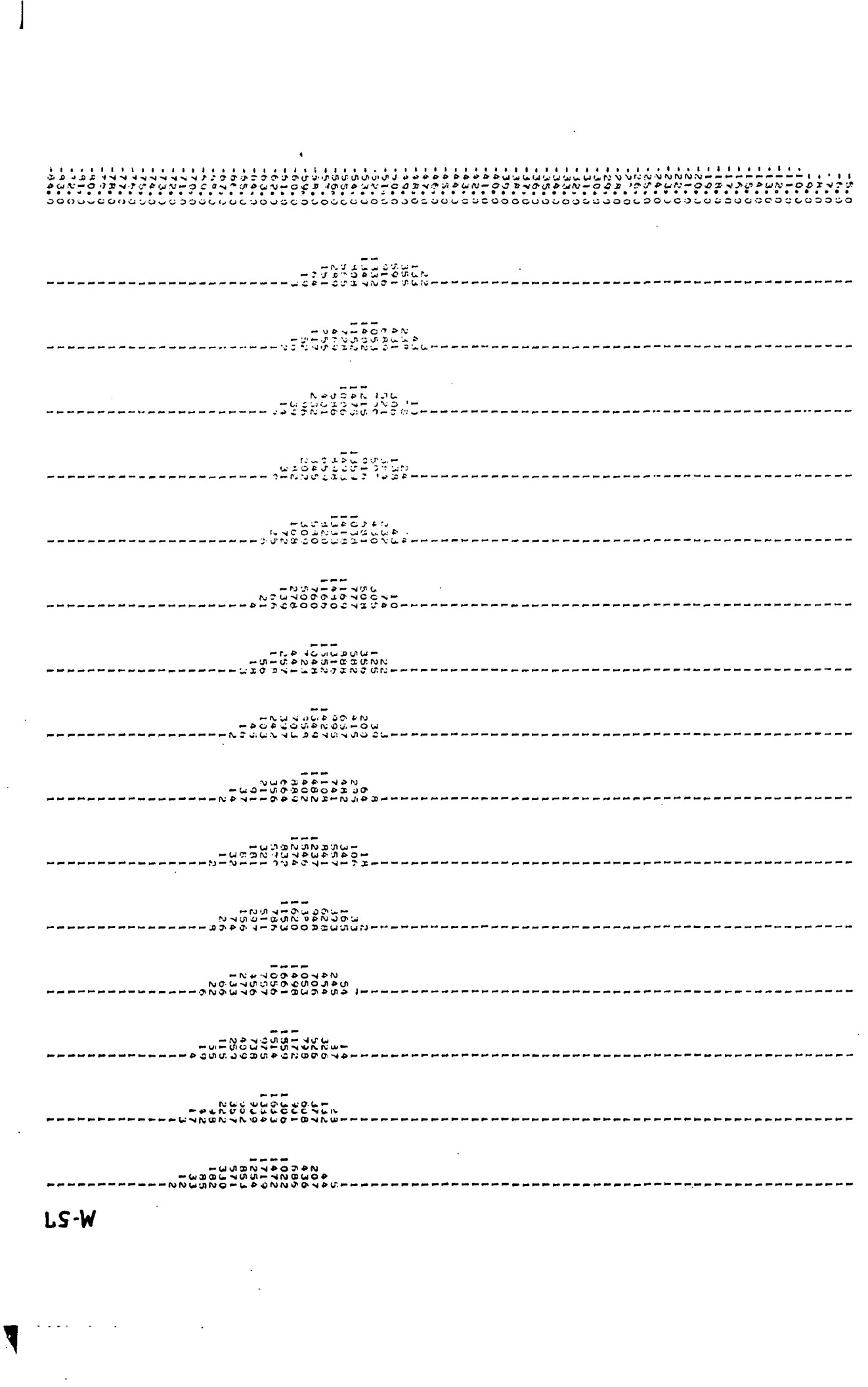
INNER ZONE MODEL: AE6 (SOLAR MAX)

OUTER ZONE MODEL: AE17-HI

ALTITUDE= 900.0 ENERGY= 5.000 ELECTRONS

	-180.0	-177.0	-174.0	-171.0	-168.0	-165.0	-162.0	-159.0	-156.0	-153.0	-150.0	-147.0	-144.0	-141.0	-138.0
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74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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71.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
70.0	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1
69.0	22	15	7	3	1	1	1	1	1	1	1	1	1	1	1
68.0	81	55	34	21	12	4	2	1	1	1	1	1	1	1	1
67.0	206	149	106	79	47	26	16	5	2	1	1	1	1	1	1
66.0	414	341	288	194	130	89	54	28	15	4	1	1	1	1	1
65.0	819	681	518	403	320	231	144	92	54	26	12	3	1	1	1
64.0	1224	1040	905	812	604	441	334	235	140	87	44	21	7	2	1
63.0	1866	1718	1432	1175	974	840	638	446	326	215	123	76	33	16	4
62.0	1508	1712	1801	1923	1575	1267	1003	839	615	416	303	179	90	53	23
61.0	975	1152	1351	1622	1763	1886	1619	1259	972	814	542	367	255	135	78
60.0	608	729	867	1057	1270	1547	1759	1890	1558	1170	910	716	456	313	186
59.0	353	429	533	675	818	1010	1248	1561	1766	1911	1424	1049	829	574	370
58.0	69	131	251	391	496	642	807	1023	1293	1644	1797	1696	1239	819	726
57.0	7	20	47	98	205	377	491	657	836	1085	1374	1691	1930	1452	1039
56.0	1	1	3	13	34	88	202	346	516	698	900	1172	1511	1724	1688
55.0	1	1	1	1	2	11	38	97	242	415	568	759	993	1295	1639
54.0	1	1	1	1	1	1	2	14	47	126	330	463	643	837	1121
53.0	1	1	1	1	1	1	1	1	4	21	67	184	382	532	727
52.0	1	1	1	1	1	1	1	1	1	1	8	34	133	291	442
51.0	1	1	1	1	1	1	1	1	1	1	1	2	16	97	171
50.0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	31
49.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

ORIGINAL PAGE IS
OF POOR QUALITY



LS-W

ALTITUDE= 900.0 ENERGY= 5.000 ELECTRONS

	-135.0	-132.0	-129.0	-126.0	-123.0	-120.0	-117.0	-114.0	-111.0	-108.0	-105.0	-102.0	-99.0	-96.0	-93.0
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59.0	254	130	74	30	13	3	1	1	1	1	1	1	1	1	1
58.0	445	301	173	91	45	19	6	1	1	1	1	1	1	1	1
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56.0	1197	882	683	416	283	159	86	44	20	8	2	1	1	1	1
55.0	1775	1388	982	773	505	328	218	116	71	33	17	7	2	1	1
54.0	1470	1676	1592	1119	835	633	394	275	166	94	59	29	17	9	4
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52.0	627	828	1106	1455	1635	1520	1073	815	656	426	303	225	141	96	74
51.0	370	520	714	958	1253	1551	1688	1285	937	754	574	399	302	249	177
50.0	100	289	435	618	818	1084	1414	1586	1537	1126	868	735	574	427	341
49.0	14	57	172	363	514	697	930	1200	1498	1613	1414	1069	856	731	679
48.0	1	6	31	101	294	424	596	778	1019	1298	1512	1627	1408	1119	944
47.0	1	1	1	14	56	168	340	496	654	947	1375	1339	1598	1503	1549
46.0	1	1	1	1	5	30	93	262	394	540	693	890	1377	1294	1481
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43.0	1	1	1	1	1	1	1	1	1	8	31	82	198	322	396
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ORIGINAL PAGE IS
OF POOR QUALITY

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-66.0	808	1024	1369	1791	1773	1609	1312	1082	887	751	607	496	419	257	158
-67.0	494	777	936	1233	1647	1892	1798	1579	1317	1113	932	808	677	574	499
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-69.0	151	275	370	539	803	959	1213	1549	1980	2000	1932	1762	1536	1373	1217
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-71.0	26	55	97	161	276	365	499	704	904	1060	1291	1550	1853	2236	2202
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-73.0	1	4	15	37	53	90	136	211	318	394	503	656	825	972	1086
-74.0	1	1	2	7	19	33	61	96	149	203	279	366	444	545	672
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ALTITUDE= 900.0 ENERGY= 5.000 ELECTRONS

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53.0	17	13	10	9	10	13	18	24	37	66	101	166	246	435	623
52.0	57	42	36	34	36	43	57	74	104	155	250	349	499	774	993
51.0	134	110	99	96	100	112	136	181	260	330	441	648	878	1120	1537
50.0	293	266	254	244	253	272	303	353	444	601	810	983	1306	1772	1903
49.0	543	468	430	418	429	466	539	671	804	930	1160	1528	1335	1799	1479
48.0	842	784	769	756	767	798	860	965	1147	1435	1844	1803	1644	1233	940
47.0	1345	1192	1111	1082	1104	1179	1325	1521	1832	1763	1688	1388	1110	847	632
46.0	1546	1610	1666	1706	1722	1720	1697	1663	1627	1388	1159	928	729	533	331
45.0	1154	1286	1397	1464	1484	1446	1362	1242	1103	934	767	605	447	356	89
44.0	755	852	931	983	997	977	917	830	731	616	492	389	162	56	13
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ORIGINAL PAGE IS
OF POOR QUALITY

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-62.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-63.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-64.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-65.0	17	9	5	3	2	1	1	1	1	1	1	3	5	10	18
-66.0	102	69	44	34	26	21	18	17	18	20	25	33	46	68	97
-67.0	444	311	226	173	140	120	109	105	106	115	132	157	198	251	358
-68.0	715	538	383	343	313	496	468	444	447	473	529	565	611	674	750
-69.0	1006	1006	938	898	833	800	770	773	779	800	830	800	856	1056	1149
-70.0	1638	1513	1416	1321	1258	1217	1195	1190	1199	1225	1266	1327	1412	1523	1665
-71.0	2158	2130	2043	1963	1875	1812	1777	1761	1772	1806	1863	1942	2053	2136	2365
-72.0	1897	2170	2403	2364	2352	2455	2362	2377	2404	2440	2482	2537	2601	2573	2762
-73.0	1727	1878	1927	1882	1826	1963	2085	2184	2255	2296	2302	2277	2218	2135	2033
-74.0	901	942	1034	1114	1145	1275	1343	1395	1433	1458	1469	1460	1439	1403	1355
-75.0	430	433	472	451	722	788	848	897	932	952	954	942	915	877	825
-76.0	210	262	319	364	394	424	451	475	493	505	509	507	495	479	438
-77.0	92	109	128	149	170	192	211	227	240	248	251	247	239	226	210
-78.0	28	35	45	56	66	77	87	96	103	105	106	106	102	95	86
-79.0	5	8	11	15	20	23	26	28	30	31	31	31	30	29	27
-80.0	1	1	2	2	2	3	4	4	5	5	5	5	5	5	4
-81.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-82.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-83.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-84.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

ALTITUDE= 900.0 ENERGY= 5.000 ELECTRONS

	-45.0	-42.0	-39.0	-36.0	-33.0	-30.0	-27.0	-24.0	-21.0	-18.0	-15.0	-12.0	-9.0	-6.0	-3.0
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
72.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
71.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
70.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
69.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
68.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
67.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
66.0	1	1	1	1	1	1	1	1	1	1	1	1	1	2	4
65.0	1	1	1	1	1	1	1	1	1	1	2	5	14	25	
64.0	1	1	1	1	1	1	1	1	1	2	6	18	31	54	92
63.0	1	1	1	1	1	1	1	2	6	19	33	62	104	151	224
62.0	1	1	1	1	1	2	5	17	33	64	110	168	265	355	459
61.0	1	1	1	1	3	12	28	59	107	171	285	388	510	691	938
60.0	1	1	2	7	23	48	97	159	276	391	533	745	954	1125	1354
59.0	4	4	16	35	80	136	241	373	520	753	982	1182	1459	1793	2212
58.0	9	25	56	109	193	339	473	707	966	1187	1501	1849	2158	2016	1866
57.0	38	86	148	279	411	619	921	1132	1466	1906	2132	1990	1729	1432	1203
56.0	111	203	348	509	794	1038	1363	1803	2133	1980	1678	1370	1112	909	766
55.0	284	413	643	934	1204	1620	2165	1987	1708	1361	1079	867	695	583	436
54.0	501	795	1037	1403	1928	2021	1825	1409	1101	863	672	510	402	198	101
53.0	906	1175	1619	2078	1816	1522	1187	901	693	510	373	165	75	33	13
52.0	1350	1871	1961	1717	1308	986	760	542	401	160	69	26	8	1	1
51.0	2019	1862	1478	1127	841	612	437	207	78	26	7	1	1	1	1
50.0	1703	1293	967	727	504	309	108	36	9	1	1	1	1	1	1
49.0	1136	841	609	425	178	59	15	2	1	1	1	1	1	1	1
48.0	739	517	332	108	31	5	1	1	1	1	1	1	1	1	1
47.0	443	213	67	16	1	1	1	1	1	1	1	1	1	1	1
46.0	138	42	8	1	1	1	1	1	1	1	1	1	1	1	1
45.0	24	3	1	1	1	1	1	1	1	1	1	1	1	1	1
44.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
43.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
42.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
41.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
40.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
39.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
38.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
37.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
36.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
35.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
34.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
33.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

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-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-33.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-34.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-35.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-36.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-37.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-38.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-39.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-40.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-41.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-42.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-43.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-44.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-45.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-46.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-47.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-48.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-49.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-50.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-51.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-54.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
-55.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	20
-56.0	1	1	1	1	1	1	1	1	1	1	1	1	1	5	22	65
-57.0	1	1	1	1	1	1	1	1	1	1	1	1	5	24	72	171
-58.0	1	1	1	1	1	1	1	1	1	1	1	7	27	80	186	398
-59.0	1	1	1	1	1	1	1	1	1	1	9	33	93	226	441	817
-60.0	1	1	1	1	1	1	1	2	13	41	110	235	503	840	1089	
-61.0	1	1	1	1	1	1	5	20	56	133	279	592	974	1156	1480	
-62.0	1	1	1	1	2	11	32	81	171	351	718	918	1190	1509	1863	
-63.0	1	1	2	8	23	56	119	235	468	769	979	1272	1570	1941	2384	
-64.0	3	10	23	50	100	185	350	660	941	1068	1359	1656	2051	2492	3060	
-65.0	33	61	106	181	315	566	761	946	1197	1458	1776	2172	2636	3159	3366	
-66.0	145	224	355	587	730	889	1098	1338	1601	1946	2332	2824	3179	3392	3132	
-67.0	514	649	757	897	1079	1285	1509	1804	2143	2557	3029	3208	3434	2810	2303	
-68.0	954	980	1143	1304	1506	1765	2060	2418	2868	3067	3266	2998	2484	2054	1700	
-69.0	1269	1417	1602	1833	2082	2401	2804	2967	3142	3057	2570	2157	1801	1521	1226	
-70.0	1820	2003	2242	2534	2775	2910	3070	2944	2528	2160	1828	1563	1333	1021	777	
-71.0	2582	2672	2781	2909	3025	2671	2349	2041	1765	1537	1352	1065	827	645	507	
-72.0	2969	2729	2438	2274	2038	1814	1617	1441	1283	1031	822	657	525	395	272	
-73.0	1916	1789	1656	1526	1405	1292	1109	918	757	624	511	399	285	200	142	
-74.0	1300	1240	1144	1007	874	753	645	547	464	362	268	195	144	99	61	
-75.0	767	703	637	570	505	448	371	291	225	171	132	93	50	39	26	
-76.0	434	408	354	302	252	206	167	136	107	75	52	36	24	12	6	
-77.0	190	170	151	132	115	91	69	51	38	29	17	9	5	3	1	
-78.0	77	66	56	46	38	31	24	16	10	6	3	2	1	1	1	
-79.0	24	21	16	12	9	6	4	3	2	1	1	1	1	1	1	
-80.0	3	3	2	2	1	1	1	1	1	1	1	1	1	1	1	
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-82.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-83.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-84.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

M-60

ALTITUDE= 900.0 ENERGY= 5.000 ELECTRONS

	0.0	3.0	6.0	9.0	12.0	15.0	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
72.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
71.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
70.0	1	1	1	1	1	1	1	1	1	1	1	1	2	2	3
69.0	1	1	1	1	1	1	1	2	2	4	6	10	15	19	22
68.0	1	1	1	1	2	4	7	13	20	25	31	40	51	63	78
67.0	1	2	5	10	19	25	35	49	66	86	100	116	136	158	182
66.0	9	20	29	43	63	90	110	136	168	206	251	305	367	440	377
65.0	41	67	98	127	166	217	284	336	374	419	469	527	590	658	724
64.0	125	175	246	331	380	442	519	613	713	815	887	926	969	1018	1070
63.0	331	395	483	594	724	867	947	1019	1106	1204	1313	1411	1502	1610	1711
62.0	594	763	932	1022	1141	1289	1437	1593	1760	1936	2029	1945	1873	1838	1750
61.0	1032	1194	1387	1589	1421	2092	2062	1972	1893	1832	1698	1569	1424	1316	1221
60.0	1609	1918	2161	2046	1952	1874	1657	1473	1337	1221	1110	1008	922	845	793
59.0	2070	1967	1793	1553	1364	1221	1071	951	855	776	711	638	573	519	473
58.0	1563	1346	1160	995	870	771	673	586	516	458	411	371	336	287	187
57.0	1001	854	737	613	519	447	390	285	201	144	106	78	59	44	33
56.0	614	504	422	300	187	121	79	53	36	23	15	9	6	5	1
55.0	290	164	94	55	31	17	9	4	2	1	1	1	1	1	1
54.0	53	26	11	4	1	1	1	1	1	1	1	1	1	1	1
53.0	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1
52.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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| | | |

ALTITUDE= 900.0 ENERGY= 5.000 ELECTRONS

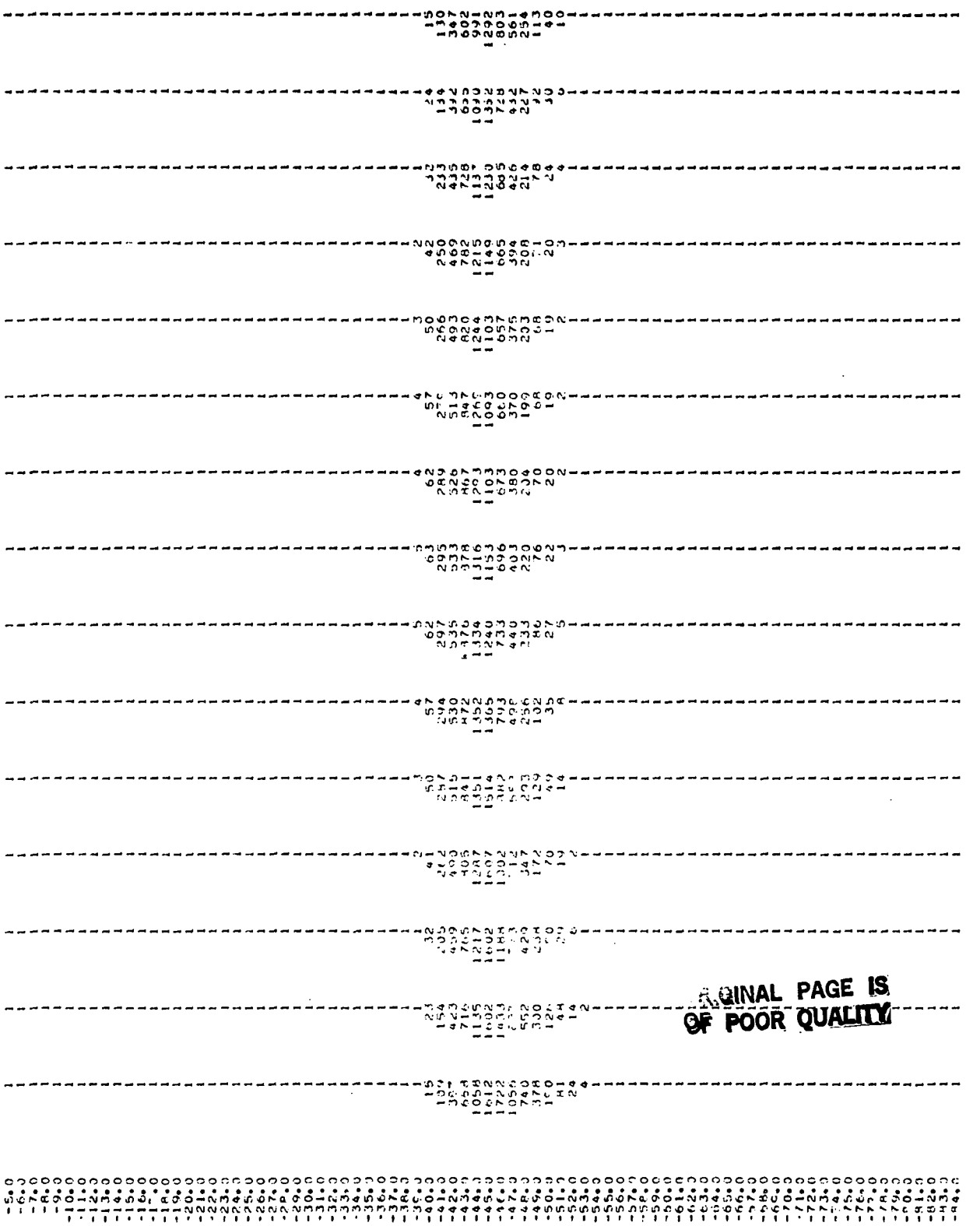
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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 5.000 ELECTRONS

	90.0	93.0	96.0	99.0	102.0	105.0	108.0	111.0	114.0	117.0	120.0	123.0	126.0	129.0	132.0
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73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
72.0	2	2	2	2	3	3	3	4	4	4	5	5	5	5	5
71.0	16	16	17	18	19	20	21	22	23	25	26	26	27	27	27
70.0	47	51	56	62	67	69	71	73	75	77	80	82	83	85	85
69.0	115	122	130	141	149	159	167	176	185	192	201	208	216	220	221
68.0	266	273	282	291	301	310	321	332	344	357	370	382	392	399	404
67.0	469	494	517	544	566	595	625	664	678	688	697	706	714	723	732
66.0	758	771	788	806	829	852	875	898	927	954	985	1015	1033	1039	1042
65.0	1169	1210	1257	1307	1355	1401	1444	1496	1547	1534	1525	1523	1527	1531	1532
64.0	1470	1441	1414	1391	1371	1356	1342	1329	1289	1257	1232	1213	1199	1194	1194
63.0	1100	1063	1019	970	942	909	892	859	834	811	793	779	768	763	760
62.0	714	680	651	624	597	575	555	538	523	510	494	482	474	468	462
61.0	438	412	392	370	353	337	323	310	299	290	281	274	269	267	265
60.0	239	204	173	149	128	110	95	83	72	63	57	51	47	43	40
59.0	41	34	28	24	19	15	12	10	8	6	5	4	3	3	2
58.0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
57.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
56.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 5.000 ELECTRONS

	135.0	138.0	141.0	144.0	147.0	150.0	153.0	156.0	159.0	162.0	165.0	168.0	171.0	174.0	177.0
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
72.0	5	4	4	3	3	2	2	2	1	1	1	1	1	1	1
71.0	26	25	24	23	21	19	18	16	12	8	5	3	2	1	1
70.0	85	84	82	80	76	72	65	56	46	37	29	23	18	11	6
69.0	223	220	214	205	195	181	163	146	129	111	95	82	66	47	32
68.0	407	406	400	393	385	368	351	331	310	285	263	212	169	132	103
67.0	739	745	749	750	748	747	723	667	606	542	477	419	358	321	283
66.0	1110	1119	1119	1114	1100	1073	1036	995	953	903	854	811	747	622	506
65.0	1555	1574	1599	1623	1661	1702	1749	1682	1581	1475	1371	1236	1104	990	895
64.0	1202	1213	1236	1270	1317	1370	1454	1550	1595	1646	1708	1780	1858	1642	1430
63.0	757	768	785	807	834	874	926	988	1065	1149	1257	1391	1567	1638	1765
62.0	464	468	475	489	512	539	574	619	665	721	796	890	1007	1142	1302
61.0	241	239	244	257	277	306	327	353	384	424	477	543	631	721	832
60.0	39	39	40	43	47	54	64	80	104	140	194	261	361	422	503
59.0	2	2	2	2	3	4	6	9	13	20	32	49	79	129	214
58.0	1	1	1	1	1	1	1	1	1	1	1	3	8	18	37
57.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
56.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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49.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
48.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
47.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
46.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
45.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
44.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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42.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
41.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
40.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
39.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

ORIGINAL PAGE IS
OF POOR QUALITY

-5.0													
-6.0													
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-39.0	1	1	1	1	1	1	1	1	1	1	1	1	1
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-42.0	305	254	226	129	69	34	14	3	1	1	1	1	1
-43.0	538	483	416	342	281	228	109	49	19	4	1	1	1
-44.0	890	798	694	589	503	412	322	254	131	53	10	4	1
-45.0	1234	1200	1122	955	821	680	558	457	344	263	127	47	14
-46.0	906	1059	1297	1267	1213	1087	903	738	585	467	342	257	131
-47.0	583	634	714	950	1065	1349	1250	1162	934	744	581	445	323
-48.0	296	364	469	573	643	772	992	1357	1276	1165	919	714	550
-49.0	148	200	226	280	383	536	627	759	1006	1407	1294	1114	865
-50.0	57	68	93	139	204	254	353	525	642	806	1105	1382	1236
-51.0	14	19	31	55	72	113	200	253	369	574	680	899	1299
-52.0	1	3	7	14	22	44	69	115	207	275	423	619	764
-53.0	1	1	1	1	4	12	21	46	74	134	224	325	526
-54.0	1	1	1	1	1	1	3	13	24	58	91	180	284
-55.0	1	1	1	1	1	1	1	1	4	15	33	68	126
-56.0	1	1	1	1	1	1	1	1	1	2	9	21	56
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-78.0	1	1	1	1	1	1	1	1	1	1	1	1	1
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-82.0	1	1	1	1	1	1	1	1	1	1	1	1	1
-83.0	1	1	1	1	1	1	1	1	1	1	1	1	1
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ALTITUDE: 900 KM

ELECTRONS: E ≥ 6.0 MEV

INNER ZONE MODEL: AE6 (SOLAR MAX)

OUTER ZONE MODEL: AE17-HI

ALTITUDE= 900.0 ENERGY= 6.000 ELECTRONS

	-180.0	-177.0	-174.0	-171.0	-168.0	-165.0	-162.0	-159.0	-156.0	-153.0	-150.0	-147.0	-144.0	-141.0	-138.0
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
72.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
71.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
70.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
69.0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
68.0	8	5	3	2	1	1	1	1	1	1	1	1	1	1	1
67.0	19	14	10	7	4	2	1	1	1	1	1	1	1	1	1
66.0	38	32	27	19	12	8	5	2	1	1	1	1	1	1	1
65.0	74	62	47	37	30	21	13	9	5	2	1	1	1	1	1
64.0	102	89	80	73	55	40	31	22	13	8	4	2	1	1	1
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ORIGINAL PAGE IS
OF POOR QUALITY

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ORIGINAL PAGE IS
OF POOR QUALITY

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ALTITUDE= 900.0 ENERGY= 6.000 ELECTRONS

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ORIGINAL PAGE IS
OF POOR QUALITY

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-60.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-61.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-62.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-63.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-64.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-65.0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
-66.0	10	7	4	3	2	2	2	2	2	2	2	3	4	6	10	
-67.0	47	33	24	18	15	12	11	11	11	12	14	16	21	28	38	
-68.0	75	67	61	57	54	52	50	47	47	50	56	60	65	71	79	
-69.0	108	101	96	92	87	83	81	81	81	88	88	93	100	109	117	
-70.0	144	138	134	127	122	120	118	118	119	122	125	131	138	147	159	
-71.0	170	170	168	163	160	157	156	157	158	161	165	170	177	185	194	
-72.0	151	169	185	184	184	185	186	188	190	193	196	200	204	209	215	
-73.0	106	116	127	137	148	157	166	173	178	181	182	181	177	172	165	
-74.0	73	85	92	98	105	111	115	119	122	124	125	125	124	122	119	
-75.0	40	46	52	59	66	72	77	81	84	86	86	85	93	90	75	
-76.0	20	25	30	34	37	39	42	44	46	47	47	47	46	44	43	
-77.0	9	10	12	14	16	18	20	21	22	23	23	23	22	21	20	
-78.0	2	3	4	5	6	7	8	9	10	10	10	10	10	9	8	
-79.0	1	1	1	1	2	2	2	2	3	3	3	3	3	3	2	
-80.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-81.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-82.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-83.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-84.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

ALTITUDE= 900.0 ENERGY= 0.000 ELECTRONS

	-45.0	-42.0	-39.0	-36.0	-33.0	-30.0	-27.0	-24.0	-21.0	-18.0	-15.0	-12.0	-9.0	-6.0	-3.0
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
72.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
71.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
70.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
69.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
68.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
67.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
66.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
65.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
64.0	1	1	1	1	1	1	1	1	1	1	1	1	3	5	9
63.0	1	1	1	1	1	1	1	1	1	2	3	6	10	14	21
62.0	1	1	1	1	1	1	1	1	3	6	10	16	25	34	42
61.0	1	1	1	1	1	1	2	5	10	16	27	36	47	63	82
60.0	1	1	1	1	2	4	8	15	26	36	49	68	86	98	113
59.0	1	1	1	3	7	13	22	35	48	68	87	102	120	143	170
58.0	1	2	5	10	19	32	44	64	86	102	123	150	167	159	151
57.0	3	5	14	26	39	56	83	98	121	150	166	158	145	129	115
56.0	10	19	32	47	72	91	113	143	166	157	142	126	108	91	79
55.0	27	38	58	83	103	131	167	157	143	125	105	88	72	57	46
54.0	46	72	90	119	151	159	149	127	107	88	70	54	42	21	10
53.0	81	100	130	161	152	133	114	91	72	54	39	17	7	3	1
52.0	111	146	154	142	121	98	78	57	42	18	7	2	1	1	1
51.0	156	148	129	108	85	64	46	22	8	2	1	1	1	1	1
50.0	139	114	95	75	53	33	11	3	1	1	1	1	1	1	1
49.0	108	85	64	45	19	6	1	1	1	1	1	1	1	1	1
48.0	76	54	35	11	3	1	1	1	1	1	1	1	1	1	1
47.0	47	21	7	1	1	1	1	1	1	1	1	1	1	1	1
46.0	15	4	1	1	1	1	1	1	1	1	1	1	1	1	1
45.0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
44.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
43.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
42.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
41.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
40.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
39.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
38.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
37.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
36.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
35.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
34.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
33.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

ORIGINAL PAGE IS
OF POOR QUALITY

-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-33.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-34.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-35.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-36.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-37.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-38.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-39.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-41.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-42.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-48.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-49.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-50.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-51.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-56.0	1	1	1	1	1	1	1	1	1	1	1	1	1	2	6
-57.0	1	1	1	1	1	1	1	1	1	1	1	1	2	7	17
-58.0	1	1	1	1	1	1	1	1	1	1	1	3	8	19	42
-59.0	1	1	1	1	1	1	1	1	1	1	3	9	21	47	86
-60.0	1	1	1	1	1	1	1	1	1	4	11	25	54	99	114
-61.0	1	1	1	1	1	1	1	2	6	13	30	63	92	119	150
-62.0	1	1	1	1	1	1	3	8	18	37	76	97	124	153	182
-63.0	1	1	1	1	1	5	12	25	50	81	103	132	158	187	215
-64.0	1	1	2	5	10	19	37	71	89	112	139	164	195	220	249
-65.0	3	6	10	19	33	60	80	99	124	147	173	201	226	253	264
-66.0	15	24	38	62	77	93	114	136	158	185	208	233	252	254	246
-67.0	54	69	70	94	112	131	150	173	195	217	242	252	255	224	190
-68.0	89	102	118	132	148	169	188	209	231	242	253	235	202	173	148
-69.0	128	140	155	173	187	204	225	234	245	239	206	176	155	135	111
-70.0	168	179	192	209	221	229	238	230	203	178	156	137	120	93	72
-71.0	206	212	219	227	233	211	190	169	150	135	122	97	78	60	47
-72.0	221	213	198	183	169	153	138	127	116	94	75	61	49	37	26
-73.0	158	149	141	132	124	116	100	84	69	58	48	38	27	19	14
-74.0	115	111	103	91	80	69	59	51	44	34	25	18	14	9	6
-75.0	80	64	59	53	47	42	35	27	21	16	13	9	6	4	2
-76.0	41	38	33	28	24	19	16	13	10	7	5	3	2	1	1
-77.0	18	16	14	12	11	9	6	5	3	3	1	1	1	1	1
-78.0	7	6	5	4	3	3	2	1	1	1	1	1	1	1	1
-79.0	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1
-80.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-81.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-83.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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ALTITUDE= 900.0 ENERGY= 6.000 ELECTRONS

	0.0	3.0	6.0	9.0	12.0	15.0	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
72.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
71.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
70.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
69.0	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2
68.0	1	1	1	1	1	1	1	1	2	2	3	4	5	6	7
67.0	1	1	1	1	2	2	3	4	6	8	9	11	13	15	17
66.0	1	2	3	4	6	8	10	13	16	19	23	28	30	33	35
65.0	4	6	9	12	15	20	27	31	35	39	43	48	54	60	65
64.0	12	16	23	31	35	41	48	56	65	74	80	82	85	88	92
63.0	31	37	44	54	66	78	84	89	95	102	109	115	122	128	134
62.0	54	69	84	90	98	109	118	128	139	151	157	151	147	143	139
61.0	91	102	115	129	144	161	160	155	150	146	139	130	123	117	111
60.0	130	151	167	160	155	150	139	129	121	114	106	98	91	84	79
59.0	162	155	147	134	124	116	104	94	86	79	73	66	60	54	50
58.0	136	124	111	98	88	79	70	61	54	48	43	39	32	25	20
57.0	99	87	76	64	55	47	41	30	21	15	11	8	6	4	3
56.0	64	53	45	32	20	13	8	5	3	2	1	1	1	1	1
55.0	31	17	10	5	3	1	1	1	1	1	1	1	1	1	1
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50.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
49.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
48.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
47.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
46.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
45.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
44.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
43.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
42.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
41.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
40.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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ORIGINAL PAGE IS
OF POOR QUALITY

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ORIGINAL PAGE IS
OF POOR QUALITY

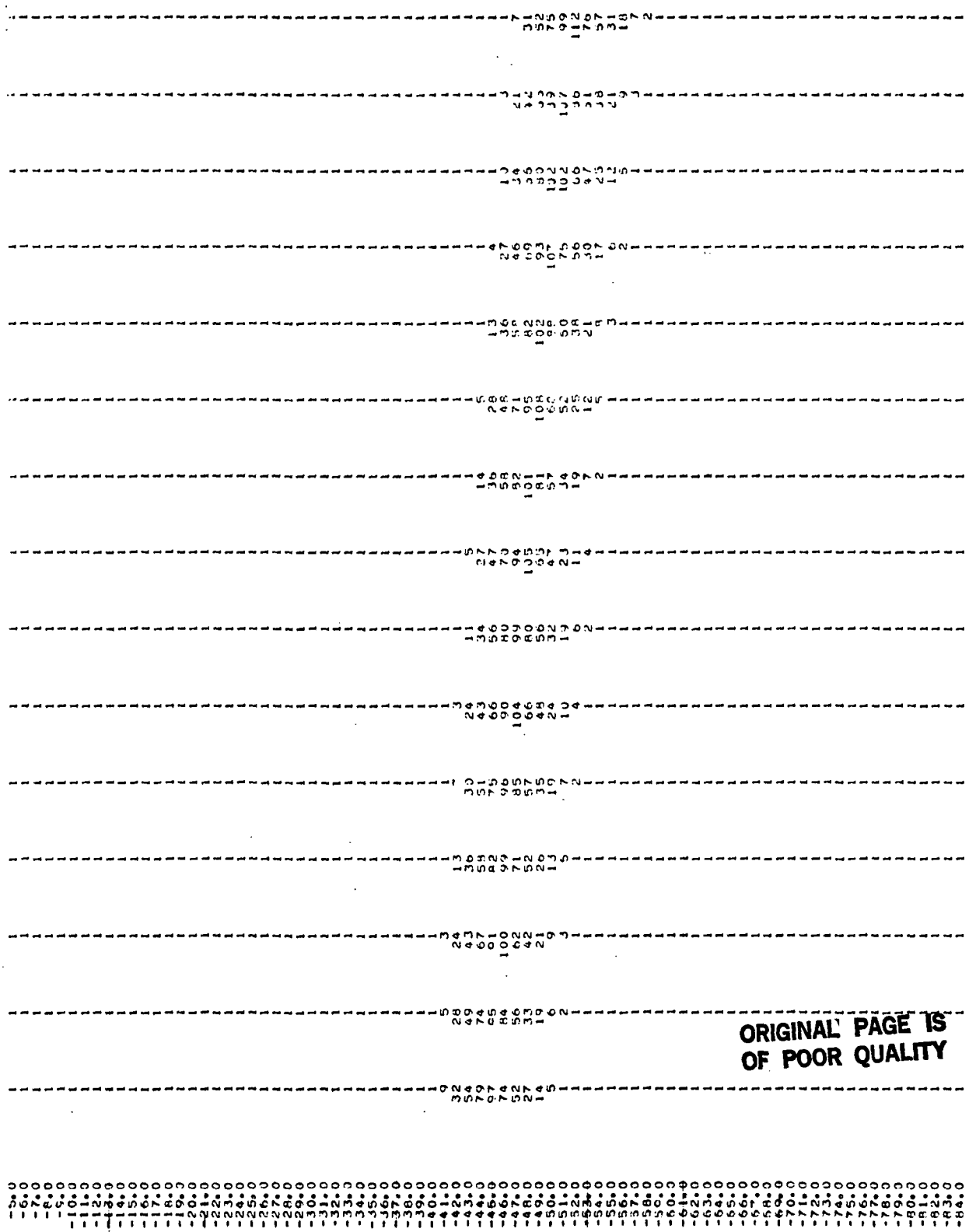
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67.0	43	45	47	49	51	54	56	60	61	62	63	63	64	65	65
66.0	67	68	69	70	71	73	74	76	78	80	82	84	86	88	90
65.0	95	97	100	104	107	109	112	116	119	119	118	118	119	119	120
64.0	115	113	111	110	109	108	107	106	104	103	102	101	101	101	101
63.0	96	93	90	88	86	84	82	81	79	78	76	75	74	74	74
62.0	70	67	65	62	60	58	56	55	54	53	51	50	49	49	48
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-43.0	68	72	75	78	80	82	81	81	79	78	76	73	69	64	59
-44.0	99	102	105	107	109	107	106	104	102	100	98	96	94	89	84
-45.0	128	126	125	124	117	107	98	92	89	88	88	91	96	104	100
-46.0	134	114	97	84	75	69	65	62	60	59	58	59	60	63	68
-47.0	90	77	69	64	53	45	40	37	35	34	34	36	39	43	50
-48.0	67	50	39	32	27	24	22	20	19	18	19	19	20	21	24
-49.0	35	28	22	16	12	9	8	7	7	6	6	7	7	9	10
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ALTITUDE= 900.0 ENERGY= 4.000 ELECTRONS

	135.0	138.0	141.0	144.0	147.0	150.0	153.0	156.0	159.0	162.0	165.0	168.0	171.0	174.0	177.0
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68.0	37	37	37	36	35	34	32	31	29	27	25	20	16	12	10
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66.0	91	92	92	92	91	90	87	85	82	79	76	73	67	58	46
65.0	121	123	124	126	129	132	135	131	124	117	111	102	93	85	79
64.0	102	103	105	107	110	114	118	124	127	130	134	138	144	129	115
63.0	74	75	77	79	81	84	89	94	99	104	110	118	127	134	139
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-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE: 900 KM

PROTONS: E > .04 MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MAX)

ALTITUDE= 900.0 ENERGY= 0.040 PRCTCNS

	-180.0	-177.0	-174.0	-171.0	-168.0	-165.0	-162.0	-159.0	-156.0	-153.0	-150.0	-147.0	-144.0	-141.0	-138.0
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
72.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
71.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
70.0	154	179	55	1	1	1	1	1	1	1	1	1	1	1	1
69.0	144	123	143	168	154	12	1	1	1	1	1	1	1	1	1
68.0	451	310	213	154	135	160	188	26	1	1	1	1	1	1	1
67.0	670	643	583	503	284	184	131	155	184	16	1	1	1	1	1
66.0	247	455	782	761	661	567	334	191	129	153	182	3	1	1	1
65.0	77	79	149	328	620	813	714	566	318	171	126	152	111	1	1
64.0	51	69	86	92	102	263	553	804	670	511	250	137	125	152	9
63.0	64	67	64	67	86	95	89	246	557	728	575	410	178	101	126
62.0	63	79	32	81	73	63	84	92	88	266	598	601	447	241	119
61.0	22	42	09	54	53	85	74	60	79	82	110	310	597	461	327
60.0	2	6	16	38	69	96	93	80	66	59	71	66	146	385	450
59.0	3	4	4	3	14	34	64	87	80	66	63	66	60	89	208
58.0	1	2	4	5	6	4	13	32	58	73	62	51	38	48	45
57.0	1	1	1	2	4	5	5	3	13	31	50	51	45	36	35
56.0	1	1	1	1	1	1	4	5	4	3	14	29	37	36	32
55.0	1	1	1	1	1	1	1	1	3	3	2	5	14	24	25
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-60.0	23	13	23	36	40	25	7	5	5	4	4	2	1	1	1	1
-61.0	7	29	13	24	39	49	40	13	6	7	6	7	6	4	3	3
-62.0	1	1	35	20	25	43	59	60	23	7	9	8	9	9	7	7
-63.0	1	1	1	41	26	26	45	68	78	41	11	12	11	12	15	15
-64.0	1	1	1	1	48	33	27	46	78	97	67	22	15	17	16	16
-65.0	1	1	1	1	1	44	39	28	48	90	117	107	43	19	23	23
-66.0	1	1	1	1	1	1	22	47	30	51	102	140	174	80	24	24
-67.0	1	1	1	1	1	1	1	6	57	38	54	114	168	226	148	148
-68.0	1	1	1	1	1	1	1	1	2	67	49	57	114	197	274	274
-69.0	1	1	1	1	1	1	1	1	1	1	79	61	60	113	228	228
-70.0	1	1	1	1	1	1	1	1	1	1	1	94	77	62	114	114
-71.0	1	1	1	1	1	1	1	1	1	1	1	1	58	95	77	77
-72.0	1	1	1	1	1	1	1	1	1	1	1	1	1	19	117	117
-73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2
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ORIGINAL PAGE IS
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ALTITUDE= 500.0 ENERGY= 0.040 PROTONS

	-135.0	-132.0	-129.0	-126.0	-123.0	-120.0	-117.0	-114.0	-111.0	-108.0	-105.0	-102.0	-99.0	-96.0	-93.0
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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54.0	16	18	18	15	19	16	46	122	141	122	90	57	42	46	59
53.0	6	10	11	14	13	14	14	17	60	128	121	109	86	61	49
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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 0.040 PROTONS

	-90.0	-87.0	-84.0	-81.0	-78.0	-75.0	-72.0	-69.0	-66.0	-63.0	-60.0	-57.0	-54.0	-51.0	-48.0
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51.0	124	132	141	158	183	223	279	369	491	380	220	98	130	136	164
50.0	76	114	161	178	212	232	220	179	120	61	79	92	84	138	241
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-29.0	892	1280	1728	2240	2888	3715	4651	5928	7336	8767	9271	9663	9958	10035	10027
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-31.0	863	1113	1788	2562	3376	4261	5101	5914	6710	7371	8004	8567	8970	9381	9915
-32.0	525	862	1357	1993	2625	3640	4464	5305	6130	6871	7565	8118	8693	9322	10234
-33.0	520	772	1149	1653	2286	3070	3945	4747	5558	6343	7078	7863	8729	9818	10219
-34.0	559	780	1086	1526	2054	2708	3481	4294	5147	5998	6928	7907	9158	9563	9860
-35.0	603	896	1175	1566	2047	2669	3391	4218	5129	6100	7236	8262	8713	9209	9687
-36.0	629	1016	1401	1776	2302	2875	3681	4489	5483	6495	7170	7803	8347	8917	9497
-37.0	459	811	1367	1951	2527	3185	3861	4620	5344	6068	6739	7392	8047	8766	9676
-38.0	363	645	1041	1581	2257	2820	3482	4200	4883	5614	6392	7116	7983	8968	9724
-39.0	322	577	918	1327	1875	2509	3223	3924	4638	5433	6269	7176	8222	8743	9019
-40.0	307	559	901	1271	1743	2277	2993	3692	4459	5339	6274	7193	7671	8090	8389
-41.0	242	528	928	1345	1804	2317	2946	3679	4586	5315	5920	6461	6965	7461	8073
-42.0	161	353	665	1064	1595	2183	2726	3353	4014	4627	5248	5875	6499	7119	7857
-43.0	127	263	488	806	1238	1750	2285	2917	3526	4126	4788	5474	6288	6851	7219
-44.0	95	210	383	659	1008	1448	2017	2568	3176	3844	4585	5213	5694	6191	6675
-45.0	57	141	295	536	855	1256	1758	2330	2880	3461	3975	4491	5004	5486	5958
-46.0	40	93	188	346	575	896	1274	1713	2211	2708	3197	3744	4264	4718	4868
-47.0	23	65	129	238	406	633	922	1268	1680	2112	2552	3034	3429	3818	4236
-48.0	14	43	96	173	288	456	684	963	1279	1674	2055	2471	2943	3492	4088
-49.0	7	27	68	128	228	365	544	770	1042	1393	1766	2195	2688	3411	4618
-50.0	2	15	42	90	164	277	437	638	893	1188	1563	2117	2866	3924	5383
-51.0	1	4	19	54	117	211	347	541	817	1172	1652	2264	3182	4317	6089
-52.0	1	2	5	20	59	143	273	469	741	1097	1583	2227	3386	5112	7477
-53.0	1	1	3	8	24	61	149	309	625	1056	1764	2771	4212	6339	8905
-54.0	1	1	2	7	21	59	147	323	626	1237	2039	3340	4675	6082	7883
-55.0	1	1	2	6	16	46	115	261	535	968	1674	2594	3805	5290	8529
-56.0	1	1	2	5	14	37	97	206	401	743	1197	2047	4069	7913	13876
-57.0	1	1	1	4	10	26	67	165	363	723	1410	2890	5735	10557	16528
-58.0	1	1	1	2	6	14	38	102	256	622	1442	3287	6646	12011	19850
-59.0	1	1	1	4	11	29	74	190	481	1143	2291	4447	6932	10245	14854
-60.0	1	1	2	6	14	35	88	211	448	867	1531	2446	3783	7492	14640
-61.0	1	2	6	13	27	56	123	274	634	1274	2614	5049	9413	16815	21436
-62.0	2	4	8	21	58	182	539	1627	2839	4094	5652	7485	9598	11922	16814
-63.0	10	16	23	33	47	74	123	240	442	1000	2474	5626	11143	19924	31522
-64.0	23	23	47	94	201	442	955	1935	3577	5591	8405	11764	16204	21486	30358
-65.0	1509	1075	807	691	626	672	935	1487	2706	5510	10656	19735	35254	61146	104965
-66.0	6084	12241	20309	19170	18515	20163	22415	27973	35296	49836	71311	104831	161490	255323	300041
-67.0	2667	6093	12938	22044	34443	49409	67757	85441	106629	131533	155012	182272	219468	254463	304342
-68.0	1114	2267	5387	11062	21032	33751	48797	68464	90125	118251	147761	182835	225309	277458	339448
-69.0	1980	2167	2662	3532	7315	14431	25782	42736	64353	87553	117124	153399	192691	235265	226146
-70.0	4903	6169	5555	6214	7358	9139	12554	17963	25534	35498	46856	60169	74645	90551	108807
-71.0	5061	8090	11352	12592	13856	15972	18320	21443	26252	32840	41604	52357	66643	83680	105759
-72.0	1927	3201	5314	8305	11956	16409	21504	27671	32700	39270	46399	53358	60646	68229	77277
-73.0	1453	1766	2137	3074	4596	6689	9558	12939	16796	20789	25352	30040	34431	38874	42733
-74.0	1583	1963	2425	2963	3680	4587	5718	7068	8758	10832	13247	16155	19653	23527	27716
-75.0	8991	8051	6795	5873	5160	4733	5306	6458	7896	9652	11692	14013	16849	21262	30053
-76.0	8975	14300	24981	39435	38596	38285	38582	41313	43370	47278	54654	65744	82623	105532	138458
-77.0	4876	6441	8445	11170	14965	19898	26672	32979	40869	49490	58043	66969	69854	71842	72630
-78.0	840	1247	1894	2854	4391	6501	9463	13259	16980	19969	23204	26474	27730	26041	23312
-79.0	539	589	657	761	899	1120	1393	1708	2046	2388	2701	2953	3103	3151	3123
-80.0	68	278	634	689	734	786	849	909	979	1055	1132	1214	1294	1370	1442
-81.0	1	1	1	1	2	8	21	36	54	72	83	84	74	56	38
-82.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-83.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-84.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 0.040 PROTONS

	-45.0	-42.0	-39.0	-36.0	-33.0	-30.0	-27.0	-24.0	-21.0	-18.0	-15.0	-12.0	-9.0	-6.0	-3.0
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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70.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
69.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
68.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
67.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
66.0	1	1	1	1	1	1	1	1	1	1	1	1	44	531	494
65.0	1	1	1	1	1	1	1	1	1	1	76	521	496	496	657
64.0	1	1	1	1	1	1	1	1	67	508	487	509	811	1574	3625
63.0	1	1	1	1	1	1	30	485	468	457	872	1966	4050	4880	6203
62.0	1	1	1	1	5	460	437	457	803	1980	4058	5218	7552	7549	3623
61.0	1	1	1	141	403	405	635	1580	3737	4984	7859	6343	2768	1083	861
60.0	1	18	368	355	448	1037	3058	4279	6856	5650	2323	904	869	760	617
59.0	271	313	321	628	2004	3334	5120	5493	2220	848	834	732	680	767	1021
58.0	266	373	946	2402	3550	5472	2366	791	765	682	582	837	1223	1808	2240
57.0	482	1565	2427	3916	2656	952	670	628	518	793	1260	2035	2070	1333	748
56.0	1565	2312	2805	1196	539	554	465	641	1088	1936	1916	1186	625	273	98
55.0	2246	1356	498	452	415	455	785	1483	1773	1094	551	217	117	137	141
54.0	638	325	350	293	500	959	1641	1059	540	200	121	149	160	147	118
53.0	263	254	297	534	1136	1053	565	222	102	139	160	157	125	60	11
52.0	169	286	559	964	615	267	72	113	139	145	122	43	7	1	1
51.0	265	577	636	326	105	77	107	124	111	43	6	1	1	1	1
50.0	467	340	130	43	72	91	91	55	7	1	1	1	1	1	1
49.0	170	61	39	61	69	57	11	1	1	1	1	1	1	1	1
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47.0	25	31	25	6	1	1	1	1	1	1	1	1	1	1	1
46.0	18	10	1	1	1	1	1	1	1	1	1	1	1	1	1
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44.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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42.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
41.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
40.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
39.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
38.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
37.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	4	6	7	6	3	1	1	1	1	1
15.0	1	1	3	4	11	18	19	18	16	16	9	1	1	1	1
14.0	2	7	10	22	33	35	34	35	40	39	16	6	1	1	1
13.0	13	21	32	53	57	58	59	67	91	51	25	13	3	4	4
12.0	41	48	78	85	87	88	102	130	112	64	43	30	29	21	14
11.0	69	104	125	124	122	135	167	211	127	56	84	78	55	37	26
10.0	141	165	168	167	175	211	265	224	174	156	148	119	80	51	36
9.0	217	220	220	217	245	308	388	277	255	226	214	154	103	71	49
8.0	296	284	268	294	348	431	433	365	333	314	295	203	135	99	70
7.0	363	342	349	403	475	606	535	447	434	416	356	254	183	130	89
6.0	429	414	448	523	642	746	627	567	549	501	451	328	243	173	122
5.0	503	503	576	688	846	854	773	718	662	621	565	444	312	229	163
4.0	576	641	752	885	1079	987	917	833	786	735	657	577	428	315	214
3.0	716	789	944	1135	1328	1150	1063	1013	932	862	740	654	542	440	326
2.0	855	980	1176	1353	1497	1336	1252	1161	1076	960	844	729	602	484	385
1.0	1037	1230	1435	1675	1723	1576	1488	1359	1257	1101	976	817	666	543	427
0.0	1280	1519	1753	1928	1905	1822	1690	1588	1447	1284	1100	944	791	636	477
-1.0	1555	1804	2032	2201	2230	2107	1955	1814	1668	1475	1305	1122	960	767	603
-2.0	1862	2125	2311	2466	2532	2406	2268	2114	1944	1770	1640	1415	1177	966	762
-3.0	2196	2440	2629	2734	2807	2773	2617	2421	2187	1948	1660	1388	1151	914	721
-4.0	2554	2758	2920	3006	3025	2913	2753	2495	2248	1972	1657	1379	1114	902	711

C.4

ALTITUDE= 900.0 ENERGY= 0.040 PROTONS

	0.0	3.0	6.0	9.0	12.0	15.0	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
72.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
71.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
70.0	1	1	1	1	1	1	1	1	1	15	80	328	292	259	229
69.0	1	1	1	1	1	15	128	403	361	324	291	262	234	223	231
68.0	1	1	30	349	444	407	374	348	339	384	440	502	579	668	778
67.0	261	490	454	430	422	521	669	881	1212	1652	1617	1546	1427	1300	1165
66.0	475	483	630	988	1572	2544	2656	2658	2556	2453	2321	2199	1505	986	650
65.0	1065	2010	3339	3627	3809	4365	4417	3765	2347	1412	843	487	280	160	132
64.0	4194	4822	5766	7075	4199	2344	1269	674	382	333	277	225	179	137	104
63.0	9247	5098	2533	1264	628	564	489	401	320	242	178	147	130	111	91
62.0	1602	797	730	627	517	402	316	313	301	281	247	215	179	141	106
61.0	769	636	496	492	534	559	575	579	574	543	400	268	160	97	56
60.0	616	740	881	1019	1180	1281	983	601	382	230	128	69	35	18	8
59.0	1341	1780	1668	1174	758	455	256	132	63	28	12	9	7	5	3
58.0	1515	953	543	265	136	55	38	33	27	20	14	9	6	3	1
57.0	377	167	74	75	68	57	44	32	21	12	6	2	1	1	1
56.0	112	110	101	82	61	40	22	10	3	1	1	1	1	1	1
55.0	131	106	73	41	16	4	1	1	1	1	1	1	1	1	1
54.0	75	25	6	1	1	1	1	1	1	1	1	1	1	1	1
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52.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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49.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
48.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
47.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
46.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
45.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
44.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
43.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
42.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
41.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
40.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
39.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
38.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
37.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
36.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
35.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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33.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	10	4	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	16	8	1	1	1	1	1	1	1	1	1	1	1	1	1
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ALTITUDE= 500.0 ENERGY= 0.040 PROTONS

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70.0	202	176	154	134	115	107	104	100	97	93	89	85	82	79	77
69.0	238	242	245	247	249	249	249	245	219	197	175	157	140	126	114
68.0	751	665	915	944	478	413	354	305	261	219	187	158	134	106	83
67.0	1018	886	782	589	423	300	209	147	100	69	47	33	23	16	12
66.0	425	276	174	109	65	40	28	23	18	15	12	10	8	6	5
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ALTITUDE= 900.0 ENERGY= 0.040 PROTONS

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71.0	43	42	42	41	41	42	43	43	45	47	49	51	54	57	59
70.0	75	74	73	74	75	75	75	77	79	82	86	90	97	104	113
69.0	104	95	88	82	78	75	73	73	74	76	78	83	90	99	110
68.0	66	53	43	35	30	26	22	20	18	17	17	17	17	18	21
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-26.0	1	1	1	1	1	1	1	1	1	1	1	1	1
-27.0	1	1	1	1	1	1	1	1	1	1	1	1	1
-28.0	1	1	1	1	1	1	1	1	1	1	1	1	1
-29.0	1	1	1	1	1	1	1	1	1	1	1	1	1
-30.0	1	1	1	1	1	1	1	1	1	1	1	1	1
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-36.0	1	1	1	1	1	1	1	1	1	1	1	1	1
-37.0	1	1	1	1	1	1	1	1	1	1	1	1	1
-38.0	1	1	1	1	1	1	1	1	1	1	1	1	1
-39.0	1	1	1	1	1	1	1	1	1	1	1	1	1
-40.0	1	1	1	1	1	1	1	1	1	1	1	1	1
-41.0	1	1	1	1	1	1	1	1	1	1	1	1	1
-42.0	1	1	1	1	1	1	1	1	1	1	1	1	1
-43.0	1	1	1	1	1	1	1	1	1	1	1	1	1
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-45.0	1	1	1	1	1	1	1	1	1	1	1	1	1
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-47.0	1	1	1	1	1	1	1	1	1	1	1	1	1
-48.0	1	1	1	1	1	1	1	1	1	1	1	1	1
-49.0	2	1	1	1	1	1	1	1	1	1	1	1	1
-50.0	2	3	2	2	1	1	1	1	1	1	1	1	1
-51.0	3	3	3	3	3	1	1	1	1	1	1	1	1
-52.0	17	10	5	3	3	3	4	4	2	1	1	1	1
-53.0	1	1	16	16	9	3	4	4	5	5	3	1	1
-54.0	1	1	1	1	1	1	20	11	3	5	5	7	5
-55.0	1	1	1	1	1	1	1	1	21	10	5	7	9
-56.0	1	1	1	1	1	1	1	1	1	6	19	7	7
-57.0	1	1	1	1	1	1	1	1	1	1	1	26	1
-58.0	1	1	1	1	1	1	1	1	1	1	1	1	1
-59.0	1	1	1	1	1	1	1	1	1	1	1	1	1
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-70.0	1	1	1	1	1	1	1	1	1	1	1	1	1
-71.0	1	1	1	1	1	1	1	1	1	1	1	1	1
-72.0	1	1	1	1	1	1	1	1	1	1	1	1	1
-73.0	1	1	1	1	1	1	1	1	1	1	1	1	1
-74.0	1	1	1	1	1	1	1	1	1	1	1	1	1
-75.0	1	1	1	1	1	1	1	1	1	1	1	1	1
-76.0	1	1	1	1	1	1	1	1	1	1	1	1	1
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-79.0	1	1	1	1	1	1	1	1	1	1	1	1	1
-80.0	1	1	1	1	1	1	1	1	1	1	1	1	1
-81.0	1	1	1	1	1	1	1	1	1	1	1	1	1
-82.0	1	1	1	1	1	1	1	1	1	1	1	1	1
-83.0	1	1	1	1	1	1	1	1	1	1	1	1	1
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ALTITUDE: 900 KM

PROTONS: E >.5 MEV

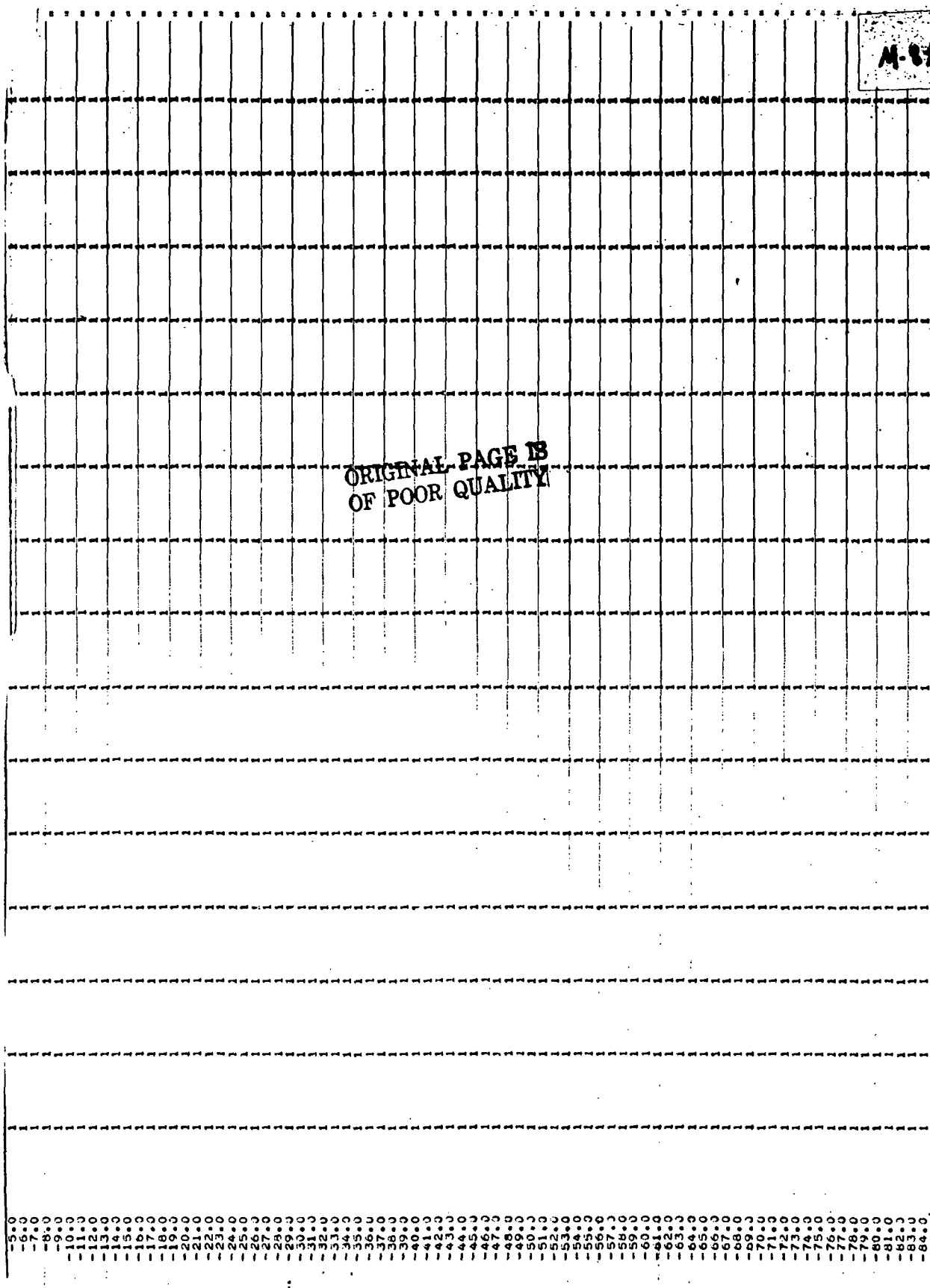
TRAPPED PROTON MODEL: AP8 (SOLAR MAX)

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 0.500 PROTONS

	-180.0	-177.0	-174.0	-171.0	-168.0	-165.0	-162.0	-159.0	-156.0	-153.0	-150.0	-147.0	-144.0	-141.0	-138.0
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
72.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
71.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
70.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
69.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
68.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
67.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
66.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
65.0	7	7	9	1	1	1	1	1	1	1	1	1	1	1	1
64.0	6	8	9	9	7	2	1	1	1	1	1	1	1	1	1
63.0	6	7	7	8	9	9	8	2	1	1	1	1	1	1	1
62.0	3	4	7	8	8	7	9	9	7	1	1	1	1	1	1
61.0	1	1	3	4	7	8	8	7	9	8	4	1	1	1	1
60.0	1	1	1	1	2	4	6	8	7	7	7	6	1	1	1
59.0	1	1	1	1	1	1	2	4	6	7	6	6	6	3	1
58.0	1	1	1	1	1	1	1	1	2	3	5	5	4	5	4
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50.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
49.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
48.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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42.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
41.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
40.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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38.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

ORIGINAL PAGE IS
OF POOR QUALITY


ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 0.500 PROTONS

	-135.0	-132.0	-129.0	-126.0	-123.0	-120.0	-117.0	-114.0	-111.0	-108.0	-105.0	-102.0	-99.0	-96.0	-93.0
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
72.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
71.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
70.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
69.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
68.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
67.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
66.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
65.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
64.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
63.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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58.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
57.0	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1
56.0	2	3	2	1	1	1	1	1	1	1	1	1	1	1	1
55.0	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1
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50.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
49.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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47.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
46.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
45.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
44.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	2	6
0.0	1	1	1	1	1	2	1	1	1	1	1	1	1	8	26
-1.0	1	1	1	1	1	1	5	4	3	2	1	1	5	16	39
-2.0	1	1	1	1	1	1	3	8	10	10	8	6	11	22	47
-3.0	1	1	1	1	1	1	2	8	15	18	24	29	29	40	63
-4.0	1	1	1	1	1	1	3	6	18	25	34	45	65	82	96

| | | |

ALTITUDE= 900.0 ENERGY= 0.500 PROTONS

	-90.0	-87.0	-84.0	-81.0	-78.0	-75.0	-72.0	-69.0	-66.0	-63.0	-60.0	-57.0	-54.0	-51.0	-48.0
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
72.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
71.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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69.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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64.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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62.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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49.0	1	1	1	1	1	1	2	3	4	6	6	8	12	14	12
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13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	5	20
11.0	1	1	1	1	1	1	1	1	1	1	1	1	7	20	54
10.0	1	1	1	1	1	1	1	1	1	1	1	9	43	73	89
9.0	1	1	1	1	1	1	1	1	1	2	13	52	91	114	145
8.0	1	1	1	1	1	1	1	1	3	17	58	99	132	176	262
7.0	1	1	1	1	1	1	1	5	22	67	109	149	193	291	353
6.0	1	1	1	1	1	1	6	24	63	109	159	211	301	421	429
5.0	1	1	1	1	1	5	23	57	104	159	228	324	516	526	515
4.0	1	1	1	2	6	19	49	101	165	241	353	557	623	628	576
3.0	1	2	5	12	27	61	108	187	283	429	686	677	716	686	672
2.0	3	8	19	35	60	106	175	279	412	576	699	791	788	766	774
1.0	12	21	36	57	93	157	241	356	515	659	807	838	846	871	899
0.0	29	39	56	87	134	206	295	426	584	723	862	921	955	988	1083
-1.0	71	79	96	127	178	258	364	499	647	809	924	1010	1083	1157	1315
-2.0	99	144	133	182	231	314	428	563	723	875	1024	1138	1225	1382	1576
-3.0	109	212	237	269	318	400	507	650	822	954	1139	1291	1442	1637	1900
-4.0	143	217	349	374	424	505	637	780	949	1143	1308	1514	1706	1954	2212

-5.0	195	264	414	525	566	651	779	932	1107	1311	1542	1701	2030	2304	2577
-6.0	253	329	471	703	742	833	968	1132	1345	1557	1814	2108	2366	2641	2938
-7.0	318	401	537	778	970	1066	1199	1373	1603	1861	2140	2410	2734	3011	3283
-8.0	405	482	626	868	1166	1287	1454	1665	1900	2179	2459	2768	3071	3374	3697
-9.0	464	576	719	951	1333	1541	1697	1917	2203	2504	2837	3123	3428	3753	3952
-10.0	537	655	831	1059	1409	1798	2002	2229	2501	2821	3150	3467	3809	4088	4294
-11.0	613	731	913	1181	1527	2031	2227	2511	2804	3134	3504	3853	4171	4464	4648
-12.0	659	817	1014	1293	1700	2244	2494	2777	3129	3448	3833	4218	4495	4735	4909
-13.0	705	879	1131	1434	1861	2415	2728	3045	3419	3786	4154	4546	4794	5032	5203
-14.0	734	957	1203	1562	2014	2634	2928	3280	3674	4060	4454	4821	5095	5297	5401
-15.0	765	1012	1289	1676	2195	2774	3120	3512	3880	4311	4730	5032	5363	5598	5644
-16.0	800	1061	1391	1826	2387	2860	3259	3645	4075	4501	4970	5268	5598	5776	5846
-17.0	825	1113	1470	1980	2546	2928	3341	3762	4233	4709	5146	5470	5746	6013	6105
-18.0	890	1196	1596	2142	2508	2947	3410	3868	4359	4829	5231	5658	5983	6164	6310
-19.0	993	1336	1712	2081	2484	2923	3410	3922	4430	4896	5359	5759	6105	6398	6636
-20.0	990	1277	1613	2019	2425	2871	3392	3935	4458	4944	5497	5904	6310	6635	6980
-21.0	853	1160	1515	1967	2374	2861	3340	3909	4448	5050	5573	6054	6510	6906	7444
-22.0	761	1027	1400	1807	2253	2766	3301	3918	4500	5111	5720	6240	6754	7358	8040
-23.0	676	941	1291	1673	2163	2663	3239	3828	4523	5150	5851	6445	7152	8040	9029
-24.0	639	880	1200	1597	2060	2599	3208	3842	4570	5250	6017	6894	7759	8843	10464
-25.0	616	851	1154	1543	2017	2564	3214	3936	4656	5456	6426	7419	8653	10365	11427
-26.0	618	871	1204	1589	2040	2583	3305	4062	4890	5822	6907	8239	10100	11197	11040
-27.0	686	943	1285	1666	2183	2785	3465	4328	5257	6467	7938	9607	10699	10721	10620
-28.0	757	1080	1404	1877	2418	3082	3913	4842	6053	7554	9227	9995	10228	10346	10293
-29.0	859	1245	1693	2158	2834	3645	4547	5781	7144	8479	9047	9461	9787	9871	9838
-30.0	906	1451	2078	2763	3492	4457	5719	6553	7305	7954	8551	8988	9247	9438	9628
-31.0	638	1074	1731	2500	3311	4196	5024	5823	6605	7252	7868	8409	8784	9145	9644
-32.0	508	834	1317	1936	2745	3554	4369	5202	6016	6738	7405	7922	8452	9004	10031
-33.0	504	750	1117	1611	2230	2992	3840	4629	5418	6180	6895	7665	8531	9650	10099
-34.0	541	760	1060	1489	2009	2655	3413	4205	5036	5871	6790	7772	9046	9467	9706
-35.0	586	870	1149	1534	2006	2619	3337	4159	5068	6038	7176	8192	8604	9054	9485
-36.0	614	986	1366	1743	2262	2827	3621	4425	5416	6421	7075	7679	8189	8727	9282
-37.0	434	754	1331	1904	2481	3135	3801	4547	5257	5963	6613	7241	7875	8580	9486
-38.0	350	620	1060	1548	2202	2763	3420	4127	4795	5509	6268	6977	7832	8811	9585
-39.0	315	558	893	1300	1844	2459	3157	3852	4555	5337	6161	7060	8110	8609	8856
-40.0	297	547	872	1237	1767	2238	2947	3630	4385	5254	6181	7089	7944	7931	8183
-41.0	233	515	909	1307	1755	2267	2890	3619	4521	5240	5824	6336	6800	7245	7796
-42.0	157	341	648	1062	1554	2117	2651	3268	3910	4504	5100	5697	6291	6887	7609
-43.0	124	257	471	788	1213	1711	2226	2832	3422	4004	4644	5309	6103	6656	6998
-44.0	92	206	377	638	983	1418	1977	2509	3098	3747	4467	5073	5533	5997	6435
-45.0	56	137	288	529	831	1217	1724	2283	2817	3378	3869	4353	4825	5272	5677
-46.0	38	90	183	336	559	872	1227	1645	2127	2606	3071	3582	4057	4474	4629
-47.0	22	64	125	233	394	610	887	1219	1610	2015	2429	2881	3261	3643	4037
-48.0	13	42	94	168	282	443	659	921	1220	1594	1952	2346	2791	3317	3898
-49.0	7	26	65	125	220	357	527	741	1001	1336	1682	2088	2553	3191	4176
-50.0	2	14	42	88	158	266	420	613	856	1139	1487	1981	2621	3490	4651
-51.0	1	4	18	52	114	201	329	512	766	1085	1507	2034	2789	3693	5187
-52.0	1	2	5	19	57	137	256	443	678	988	1406	1963	2941	4392	6426
-53.0	1	1	3	8	23	58	140	286	555	984	1548	2390	3630	5436	7354
-54.0	1	1	2	6	18	52	130	278	535	1023	1733	2794	3750	4548	5476
-55.0	1	1	2	5	13	36	93	215	429	745	1245	1853	2567	3424	5145
-56.0	1	1	1	4	11	29	76	159	305	545	859	1387	2405	4311	7020
-57.0	1	1	1	2	7	19	51	122	257	487	898	1698	3081	5271	7966
-58.0	1	1	1	1	4	9	25	69	171	384	807	1677	3172	5485	8700
-59.0	1	1	1	2	6	16	42	107	261	580	1099	1990	3038	4444	6407
-60.0	1	1	1	3	7	17	43	103	216	410	709	1112	1681	2939	5030
-61.0	1	1	1	4	10	21	48	110	242	460	885	1617	2829	4677	6260
-62.0	1	1	2	6	15	47	158	388	688	1030	1498	2073	2847	3620	5371
-63.0	2	3	6	9	14	23	40	81	154	348	822	1715	3122	5120	7581
-64.0	3	3	8	18	42	98	225	457	833	1282	1834	2437	3116	3770	4866
-65.0	170	133	109	94	96	107	153	248	460	918	1747	3082	5274	8758	14289
-66.0	494	1128	2193	2164	2271	2521	2964	3731	4870	6608	9273	13263	19429	29013	30683
-67.0	130	383	889	1615	2716	4164	5951	7881	10021	12195	14111	15938	17692	19274	20997
-68.0	29	73	223	573	1163	1921	2833	4019	5394	6950	8549	10305	12113	13956	15828
-69.0	89	83	82	88	214	530	1070	1807	2739	3861	4775	5980	7170	8382	8771
-70.0	278	283	298	327	388	480	638	894	1247	1717	2301	3013	3774	4593	6619
-71.0	346	465	621	679	755	871	1023	1219	1485	1839	2301	2849	3557	4374	5389
-72.0	218	311	422	565	747	944	1189	1451	1744	2063	2411	2748	3102	3454	3856
-73.0	129	170	247	353	467	592	747	919	1121	1338	1575	1831	2079	2338	2574
-74.0	119	140	165	196	239	297	373	460	552	652	746	830	906	965	1004
-75.0	38	67	100	141	179	222	263	299	339	384	431	479	530	562	583
-76.0	1	5	12	34	60	86	114	139	167	192	217	236	251	263	269
-77.0	1	1	1	1	1	5	8	12	17	22	27	30	31	31	28
-78.0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2
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-84.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

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ALTITUDE= 900.0 ENERGY= 0.500 PROTONS

	-45.0	-42.0	-39.0	-36.0	-33.0	-30.0	-27.0	-24.0	-21.0	-18.0	-15.0	-12.0	-9.0	-6.0	-3.0
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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61.0	1	1	1	1	1	1	1	1	1	1	1	14	38	69	78
60.0	1	1	1	1	1	1	1	1	1	13	41	79	79	75	71
59.0	1	1	1	1	1	1	1	8	36	76	77	78	73	91	106
58.0	1	1	1	1	1	1	24	62	72	71	73	96	119	136	136
57.0	1	1	1	1	10	40	64	65	65	91	119	142	122	72	34
56.0	1	1	1	20	50	57	56	76	105	134	112	62	26	8	2
55.0	1	6	30	46	47	56	61	112	105	57	22	6	3	4	5
54.0	11	31	38	37	57	82	98	56	22	5	3	5	6	7	7
53.0	27	30	36	54	76	58	24	6	2	4	7	8	9	5	1
52.0	21	32	47	55	29	9	1	3	6	8	9	4	1	1	1
51.0	27	37	30	12	2	2	4	6	8	4	1	1	1	1	1
50.0	23	14	4	1	2	4	5	4	1	1	1	1	1	1	1
49.0	6	1	1	2	3	4	1	1	1	1	1	1	1	1	1
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27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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11.0	64	98	118	117	115	128	157	201	153	93	82	76	54	38	28
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5.0	487	485	555	666	828	834	752	701	647	607	551	432	302	221	156
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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 0.500 PROTONS

	0.0	3.0	6.0	9.0	12.0	15.0	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0
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66.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
65.0	1	1	1	1	1	1	1	1	4	7	10	12	13	14	12
64.0	1	1	1	1	8	16	24	30	35	32	28	24	19	15	12
63.0	1	15	28	42	56	54	50	43	36	28	22	18	15	13	10
62.0	49	71	89	63	56	47	39	38	35	31	26	20	15	10	7
61.0	73	67	60	61	62	60	56	49	41	31	20	12	7	4	2
60.0	76	85	90	90	87	77	49	30	17	9	4	2	1	1	1
59.0	117	122	101	66	38	19	9	4	1	1	1	1	1	1	1
58.0	86	49	23	9	3	1	1	1	1	1	1	1	1	1	1
57.0	13	4	1	2	2	2	1	1	1	1	1	1	1	1	1
56.0	3	3	4	3	3	2	1	1	1	1	1	1	1	1	1
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3.0	207	142	88	56	35	23	14	6	2	1	1	1	1	1	1
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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 0.500 PROTONS

	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0	75.0	78.0	81.0	84.0	87.0
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66.0	1	2	2	2	2	2	2	2	1	1	1	1	1	1	1
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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 0.500 PROTONS

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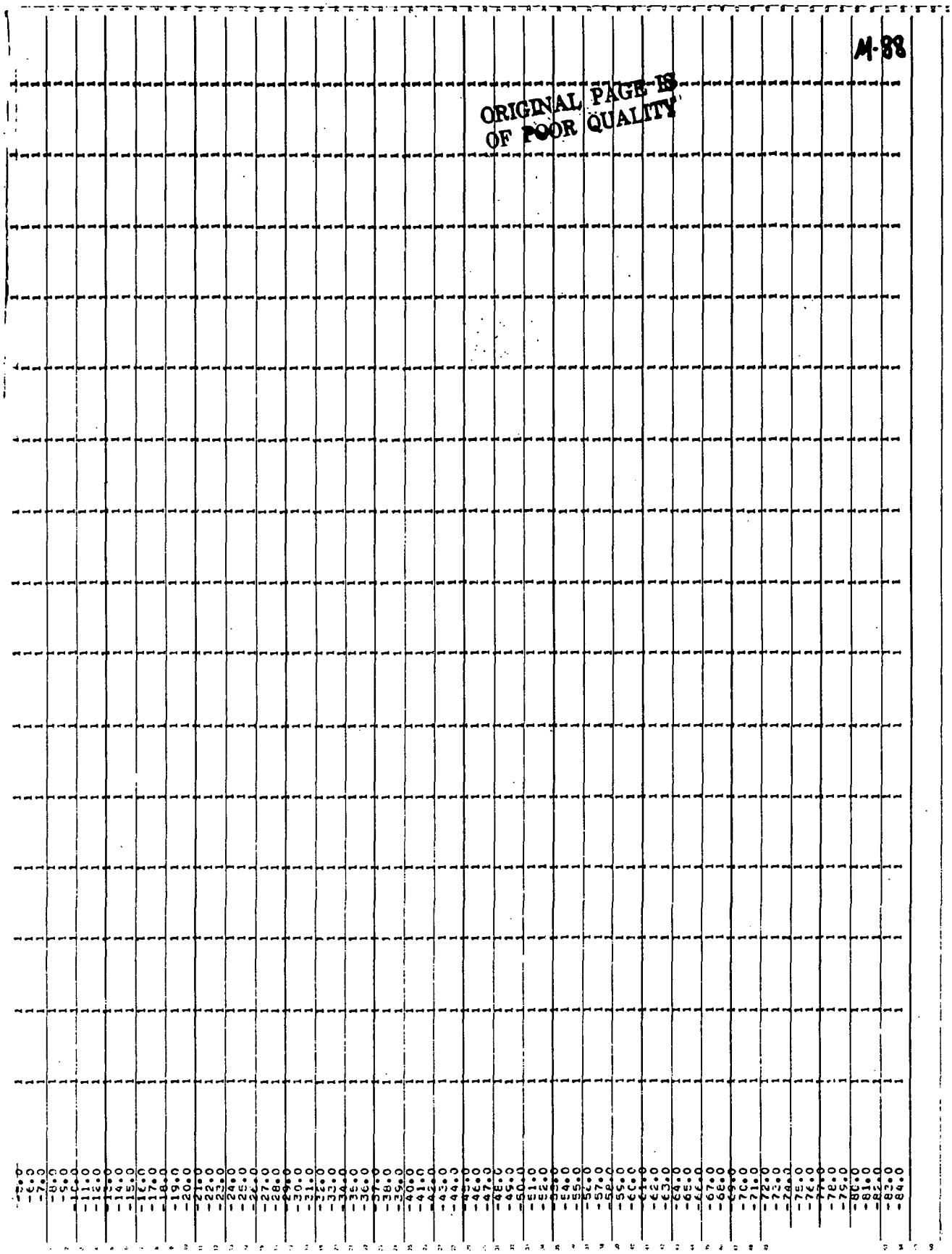
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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 500.0 ENERGY= 0.500 PROTONS

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ORIGINAL PAGE IS
OF POOR QUALITY



ALTITUDE: 900 KM

PROTONS: E >1.0 MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MAX)

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 1.000 PROTONS

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-78.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-81.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-84.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 1.000 PROTONS

	-90.0	-87.0	-84.0	-81.0	-78.0	-75.0	-72.0	-69.0	-66.0	-63.0	-60.0	-57.0	-54.0	-51.0	-48.0
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
72.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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70.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
69.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
68.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
67.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
66.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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11.0	1	1	1	1	1	1	1	1	1	1	1	1	6	26	60
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9.0	1	1	1	1	1	1	1	1	1	2	11	49	87	111	139
8.0	1	1	1	1	1	1	1	1	3	15	55	95	128	169	253
7.0	1	1	1	1	1	1	1	4	20	63	105	145	186	282	341
6.0	1	1	1	1	1	1	5	22	60	105	154	204	292	408	413
5.0	1	1	1	1	1	4	21	53	100	154	221	315	501	507	502
4.0	1	1	1	2	6	17	46	97	159	234	343	541	601	612	562
3.0	1	2	4	11	25	57	103	179	275	417	569	662	697	670	684
2.0	3	7	17	33	57	102	168	270	399	557	676	772	771	748	758
1.0	11	19	34	54	89	150	232	344	495	640	791	819	827	852	875
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-1.0	66	75	91	122	172	250	354	486	632	791	903	989	1059	1120	1270
-2.0	95	137	146	174	223	304	416	549	705	855	1003	1112	1187	1334	1528
-3.0	106	204	230	260	308	388	494	635	804	973	1111	1250	1391	1587	1852
-4.0	136	209	236	361	411	491	621	760	924	1109	1265	1461	1653	1899	2163

-5.0	191	256	400	505	545	628	753	901	1070	1264	1489	1707	1973	2253	2526
-6.0	248	322	457	680	717	806	933	1093	1298	1502	1760	2049	2313	2586	2889
-7.0	313	393	525	758	940	1033	1162	1331	1555	1807	2087	2356	2679	2960	3235
-8.0	398	474	614	849	1138	1255	1418	1624	1854	2129	2406	2713	3019	3323	3549
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-10.0	529	645	818	1042	1386	1766	1966	2187	2456	2772	3098	3414	3757	4037	4244
-11.0	603	719	899	1163	1505	2001	2191	2471	2759	3086	3453	3800	4118	4412	4592
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-14.0	723	943	1166	1542	1990	2605	2955	3242	3631	4013	4403	4767	5038	5236	5336
-15.0	753	997	1272	1655	2170	2744	3086	3473	3836	4263	4677	4976	5301	5531	5571
-16.0	787	1045	1372	1803	2360	2829	3224	3605	4030	4450	4914	5207	5531	5702	5766
-17.0	811	1090	1449	1954	2517	2895	3304	3719	4185	4655	5086	5404	5673	5931	6014
-18.0	873	1175	1572	2112	2476	2910	3368	3821	4307	4771	5166	5585	5901	6073	6209
-19.0	969	1308	1631	2047	2448	2882	3364	3871	4373	4821	5287	5679	6014	6297	6520
-20.0	963	1246	1579	1982	2385	2826	3342	3879	4395	4874	5416	5814	6209	6520	6652
-21.0	825	1124	1479	1865	2327	2811	3285	3847	4378	4971	5485	5955	6396	6780	7298
-22.0	733	995	1358	1763	2204	2709	3238	3848	4423	5024	5619	6128	6630	7215	7852
-23.0	654	907	1250	1623	2109	2604	3172	3752	4436	5052	5741	6323	7008	7852	8787
-24.0	623	851	1158	1546	1999	2528	3133	3758	4475	5143	5892	6739	7571	8605	10140
-25.0	601	831	1118	1489	1949	2487	3124	3832	4538	5360	6265	7226	8411	10041	11040
-26.0	602	852	1178	1543	1972	2494	3198	3941	4749	5656	6707	7990	9771	10823	10769
-27.0	670	922	1242	1633	2126	2699	3347	4179	5081	6254	7672	9269	10366	10467	10448
-28.0	742	1058	1377	1846	2376	3013	3808	4698	5863	7314	8942	9727	10010	10187	10178
-29.0	835	1223	1604	2163	2795	3595	4467	5659	6980	8284	8861	9299	9661	9756	9691
-30.0	877	1418	2047	2723	3446	4406	5663	6479	7211	7852	8453	8890	9129	9293	9442
-31.0	623	1045	1691	2463	3262	4138	4959	5751	6525	7163	7764	8286	8637	8964	9443
-32.0	497	818	1288	1891	2697	3496	4296	5118	5920	6628	7277	7772	8271	8907	9868
-33.0	492	737	1099	1583	2182	2935	3774	4549	5318	6062	6761	7521	8381	9510	9982
-34.0	526	744	1043	1469	1981	2615	3353	4133	4951	5773	6681	7660	8943	9385	9588
-35.0	573	849	1153	1513	1984	2589	3300	4115	5019	5982	7124	8136	8520	8941	9348
-36.0	602	964	1336	1716	2234	2800	3587	4387	5374	6373	7010	7594	8084	8609	9142
-37.0	423	779	1334	1865	2443	3095	3761	4505	5210	5906	6540	7150	7765	8447	9334
-38.0	342	612	1003	1522	2156	2714	3368	4067	4727	5431	6176	6870	7709	8670	9448
-39.0	307	546	875	1279	1819	2417	3099	3789	4479	5251	6062	6947	8001	8473	8674
-40.0	290	538	855	1215	1661	2208	2903	3574	4318	5176	6094	6986	7407	7758	7981
-41.0	227	505	893	1263	1725	2239	2851	3574	4469	5173	5735	6218	6648	7057	7570
-42.0	153	331	634	1045	1525	2073	2603	3213	3837	4412	4986	5557	6128	6697	7396
-43.0	120	253	457	769	1191	1677	2182	2773	3344	3910	4532	5177	5950	6486	6769
-44.0	89	201	372	619	956	1386	1943	2458	3032	3666	4370	4948	5373	5790	6176
-45.0	54	133	281	522	809	1179	1680	2229	2752	3254	3760	4209	4636	5051	5393
-46.0	37	86	178	325	542	847	1182	1577	2038	2497	2936	3412	3844	4224	4382
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-48.0	13	41	91	163	276	429	635	878	1158	1506	1844	2217	2635	3125	3692
-49.0	6	26	63	120	212	346	510	711	957	1269	1590	1971	2404	2966	3783
-50.0	2	14	41	85	152	255	402	585	819	1090	1409	1848	2390	3106	4050
-51.0	1	4	18	51	109	191	311	482	715	1004	1373	1823	2445	3171	4431
-52.0	1	1	5	19	66	131	240	409	622	894	1256	1731	2545	3773	5472
-53.0	1	1	3	7	22	56	132	263	507	875	1361	2081	3110	4594	6062
-54.0	1	1	2	5	16	46	115	244	465	883	1478	2386	3105	3623	4185
-55.0	1	1	1	4	11	30	78	178	350	597	981	1411	1906	2481	3665
-56.0	1	1	1	3	9	24	61	127	239	415	645	1015	1787	3030	4881
-57.0	1	1	1	2	5	15	40	95	196	364	650	1189	2106	3388	4837
-58.0	1	1	1	1	3	7	19	52	128	279	558	1087	1936	3147	4772
-59.0	1	1	1	1	4	11	30	74	176	373	680	1181	1762	2846	3612
-60.0	1	1	1	1	4	11	27	66	134	248	417	640	943	1488	2268
-61.0	1	1	1	2	5	11	26	58	124	223	401	686	1125	1745	2334
-62.0	1	1	1	2	6	17	56	135	237	366	537	767	1073	1470	1994
-63.0	1	1	2	3	5	9	17	35	65	141	309	599	1016	1533	2149
-64.0	1	1	2	5	11	27	60	126	231	351	502	658	835	1000	1258
-65.0	43	34	29	26	27	30	44	71	132	261	465	776	1250	1962	3026
-66.0	103	234	447	494	490	546	655	808	1057	1383	1898	2622	3629	5171	5213
-67.0	22	68	151	294	492	747	1054	1400	1742	2090	2402	2674	2901	3062	3208
-68.0	3	10	34	90	187	309	449	628	831	1049	1269	1502	1713	1911	2080
-69.0	14	12	11	10	27	70	145	243	362	492	612	743	866	980	1015
-70.0	44	46	49	54	64	78	102	136	183	241	313	393	478	570	670
-71.0	46	68	90	100	113	132	156	186	223	270	330	397	479	569	678
-72.0	26	37	49	66	88	112	141	173	206	240	275	303	327	344	350
-73.0	14	18	27	38	48	60	74	88	105	123	140	158	172	185	195
-74.0	11	14	16	20	24	29	34	41	48	53	57	61	63	64	65
-75.0	1	1	2	4	9	17	23	26	29	32	35	37	40	37	25
-76.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-77.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-78.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-79.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-83.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-84.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 1.000 PROTONS

	-45.0	-42.0	-39.0	-36.0	-33.0	-30.0	-27.0	-24.0	-21.0	-18.0	-15.0	-12.0	-9.0	-6.0	-3.0
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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69.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
68.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
67.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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62.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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60.0	1	1	1	1	1	1	1	1	1	1	1	8	8	8	8
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58.0	1	1	1	1	1	1	1	5	8	8	8	12	16	20	20
57.0	1	1	1	1	1	1	7	7	7	12	16	21	19	11	5
56.0	1	1	1	1	5	6	6	9	15	20	17	9	3	1	1
55.0	1	1	2	5	5	6	11	16	16	8	3	1	1	1	1
54.0	1	3	4	4	7	12	15	8	3	1	1	1	1	1	1
53.0	3	3	4	7	11	9	3	1	1	1	1	1	2	1	1
52.0	2	4	7	8	4	1	1	1	1	1	2	1	1	1	1
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48.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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46.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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4.0	542	603	682	836	1028	940	881	802	757	708	632	554	409	300	203
3.0	675	736	868	1082	1262	1103	1025	978	900	821	712	629	620	422	312
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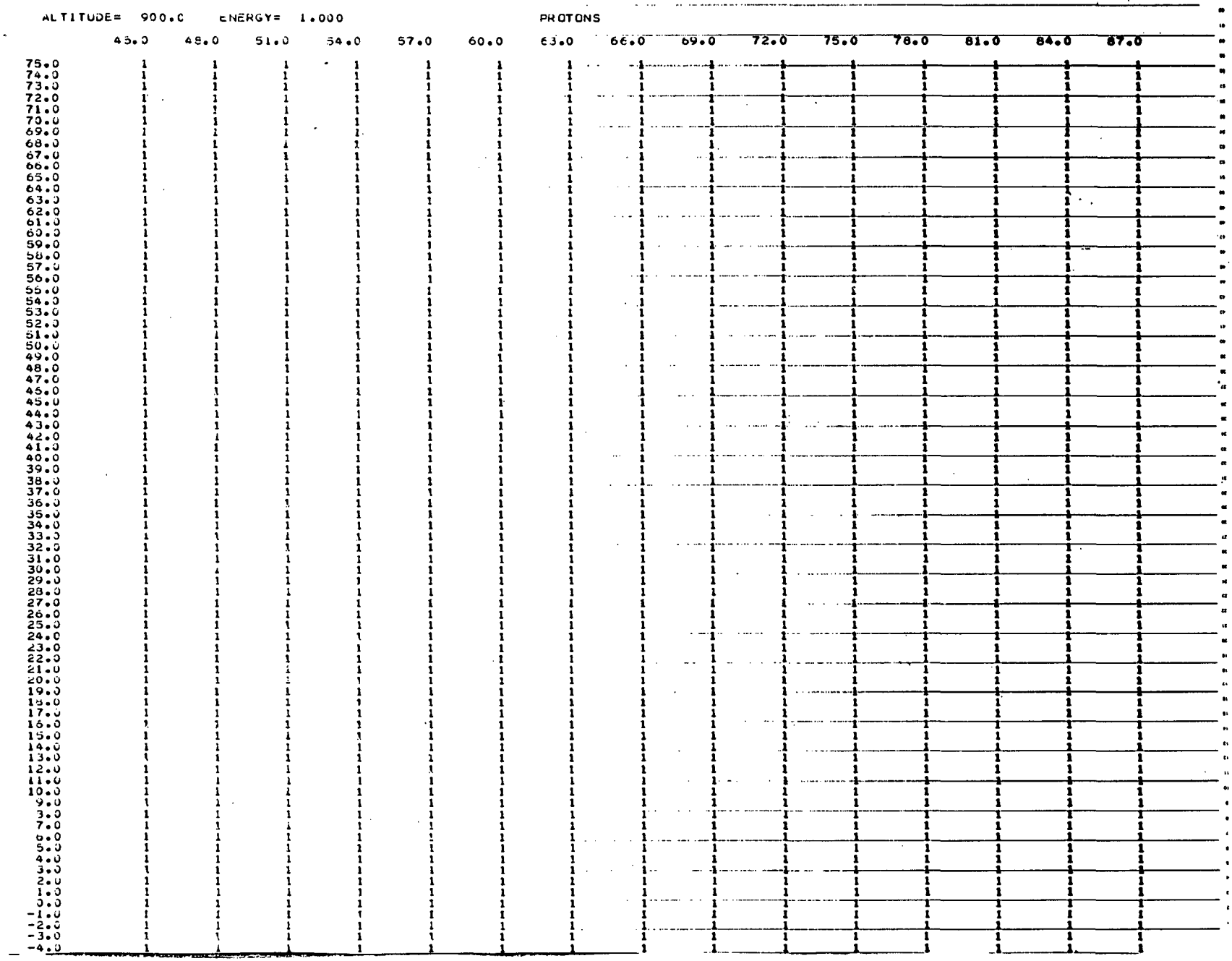
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ORIGINAL PAGE IS
OF POOR QUALITY


ALTITUDE= 900.0 ENERGY= 1.000
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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE: 900 KM

PROTONS: E>5.0 MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MAX)

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 5.000 PROTONS

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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 5.000 PROTONS

	-90.0	-87.0	-84.0	-81.0	-78.0	-75.0	-72.0	-69.0	-66.0	-63.0	-60.0	-57.0	-54.0	-51.0	-48.0
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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 5.000 PROTONS

	-45.0	-42.0	-39.0	-36.0	-33.0	-30.0	-27.0	-24.0	-21.0	-18.0	-15.0	-12.0	-9.0	-6.0	-3.0
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OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

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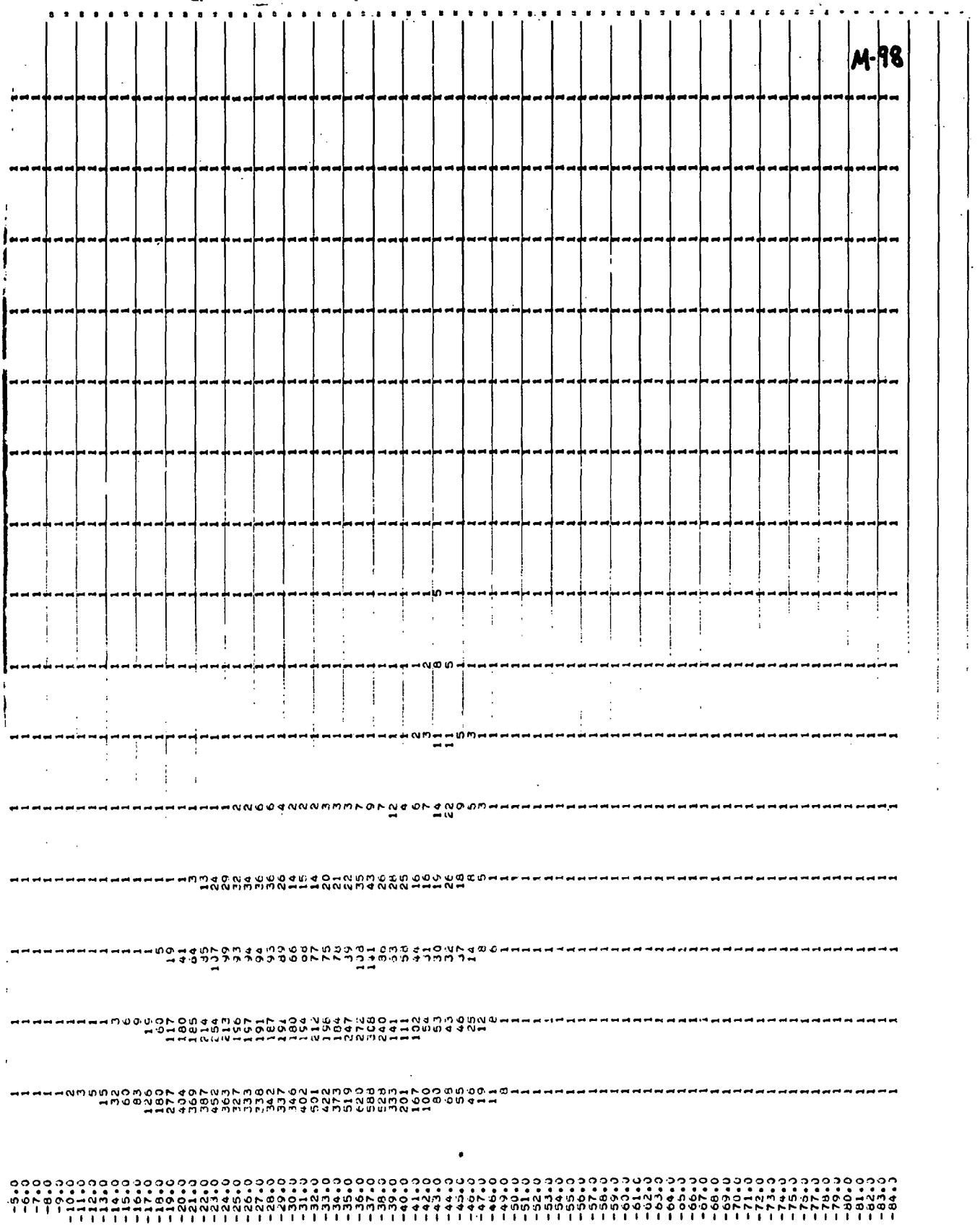
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-81.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-82.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-83.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-84.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1

M-87

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 5.000 PROTONS

	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0	75.0	78.0	81.0	84.0	87.0
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
72.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
71.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
70.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
69.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
68.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
67.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
66.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
65.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
64.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
63.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
62.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
61.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
60.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
59.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
58.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
57.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
56.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
55.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
54.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
53.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
52.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
51.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
50.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
49.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
48.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
47.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
46.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
45.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
44.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
43.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
42.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
41.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
40.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
39.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
38.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
37.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
36.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
35.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
34.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
33.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE: 900 KM

PROTONS: E>15. MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MAX)

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 15.000 PROTONS

	-135.0	-132.0	-129.0	-126.0	-123.0	-120.0	-117.0	-114.0	-111.0	-108.0	-105.0	-102.0	-99.0	-96.0	-93.0
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
72.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
71.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
70.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
69.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
68.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
67.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
66.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
65.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
64.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
63.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
62.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
61.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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59.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
58.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
57.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
56.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
55.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
54.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
53.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
52.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
51.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
50.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
49.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
48.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
47.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
46.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
45.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
44.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
43.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
42.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
41.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
40.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
39.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
38.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
37.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
36.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
35.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
34.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
33.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	4	16
-1.0	1	1	1	1	1	1	4	3	2	1	1	1	4	12	31
-2.0	1	1	1	1	1	1	2	6	8	8	7	5	10	19	41
-3.0	1	1	1	1	1	1	2	6	12	15	20	25	26	36	57
-4.0	1	1	1	1	1	1	2	5	14	20	28	30	47	74	87

| | | |

ALTITUDE= 900.0 ENERGY= 15.000 PROTONS

	-90.0	-87.0	-84.0	-81.0	-78.0	-75.0	-72.0	-69.0	-66.0	-63.0	-60.0	-57.0	-54.0	-51.0	-48.0
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
72.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
71.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
70.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
69.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
68.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
67.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
66.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
65.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
64.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
63.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
62.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
61.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
60.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
59.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
58.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
57.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
56.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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48.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
47.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
46.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
45.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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42.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
41.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
40.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
39.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
38.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
37.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
36.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
35.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
34.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
33.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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3.0	1	1	3	8	20	47	86	155	244	376	610	679	603	676	666
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M-100

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 15.000 PROTONS

	-45.0	-42.0	-39.0	-36.0	-33.0	-30.0	-27.0	-24.0	-21.0	-18.0	-15.0	-12.0	-9.0	-6.0	-3.0
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3.0	568	646	793	991	1180	1018	939	893	821	760	660	576	476	386	283
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M-101

ORIGINAL PAGE IS
OF POOR QUALITY

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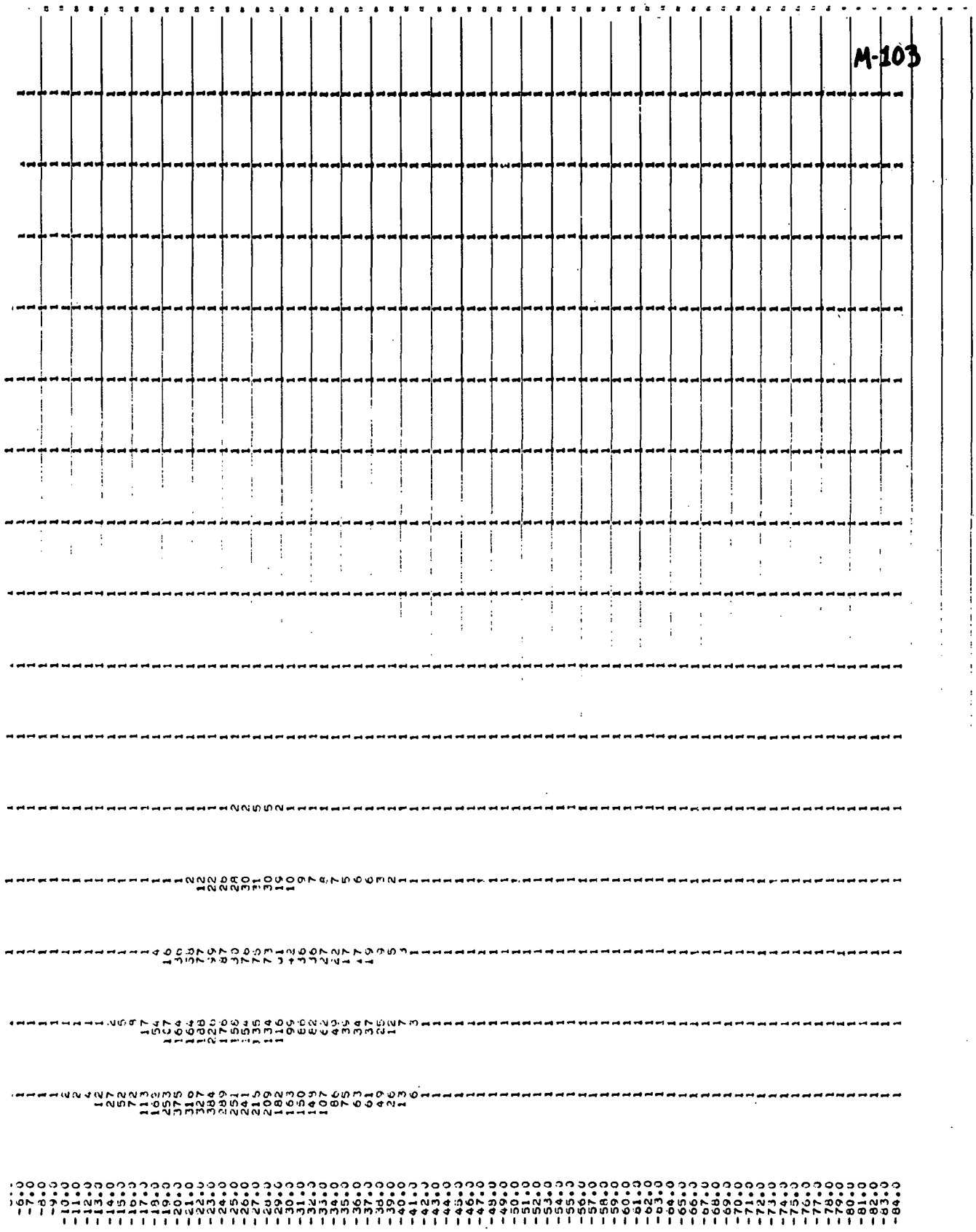
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-67.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-68.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-83.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-84.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 15.000 PROTONS

	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0	75.0	78.0	81.0	84.0	87.0
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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68.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
67.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
66.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
65.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
64.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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48.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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42.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
41.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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33.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE: 900 KM

PROTONS: E >30. MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MAX)

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 30.000 PROTONS

	-135.0	-132.0	-129.0	-126.0	-123.0	-120.0	-117.0	-114.0	-111.0	-108.0	-105.0	-102.0	-99.0	-96.0	-93.0
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-1.0	1	1	1	1	1	1	1	3	3	2	1	1	1	4	11	29
-2.0	1	1	1	1	1	1	1	2	5	7	7	6	5	9	18	39
-3.0	1	1	1	1	1	1	1	1	5	10	13	18	22	24	35	54
-4.0	1	1	1	1	1	1	1	2	4	12	17	25	35	44	70	83

-5.0	1	1	1	1	1	1	2	4	10	21	28	43	65	107	150
-6.0	1	1	1	1	1	1	2	4	11	25	35	48	73	125	173
-7.0	1	1	1	1	1	1	2	6	12	31	42	60	88	141	236
-8.0	1	1	1	1	1	2	4	8	16	34	48	67	97	188	269
-9.0	1	1	1	1	1	3	7	14	28	40	53	79	112	175	287
-10.0	1	1	1	1	2	3	7	14	21	30	43	62	90	134	206	331
-11.0	1	1	1	1	1	4	8	14	23	35	49	69	109	161	241	381
-12.0	1	1	1	1	1	2	6	14	25	39	56	84	120	189	282	464
-13.0	1	1	1	1	1	1	2	9	26	43	66	103	147	225	355	472
-14.0	1	1	1	1	1	1	1	3	18	44	77	129	189	291	372	479
-15.0	1	1	1	1	1	1	1	1	7	34	75	131	192	274	378	494
-16.0	1	1	1	1	1	1	1	1	8	26	58	114	180	258	367	496
-17.0	1	1	1	1	1	1	1	1	10	28	55	101	165	258	360	513
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-24.0	1	1	1	1	1	1	1	1	1	2	16	42	79	132	212	320
-25.0	1	1	1	1	1	1	1	1	1	1	10	34	75	130	207	313
-26.0	1	1	1	1	1	1	1	1	1	1	4	27	72	129	211	313
-27.0	1	1	1	1	1	1	1	1	1	1	1	14	60	130	222	342
-28.0	1	1	1	1	1	1	1	1	1	1	1	6	44	128	242	381
-29.0	1	1	1	1	1	1	1	1	1	1	1	3	26	103	250	416
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-37.0	1	1	1	1	1	1	1	1	1	1	1	1	1	4	43	137
-38.0	1	1	1	1	1	1	1	1	1	1	1	1	1	2	38	126
-39.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	28	115
-40.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	15	99
-41.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	61
-42.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	46
-43.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6	33
-44.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	21
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ALTITUDE= 900.0 ENERGY= 30.000 PROTONS

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-83.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 30.000 PROTONS

	-45.0	-42.0	-39.0	-36.0	-33.0	-30.0	-27.0	-24.0	-21.0	-18.0	-15.0	-12.0	-9.0	-6.0	-3.0
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74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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4.0	405	458	553	706	879	799	741	675	640	601	540	476	344	247	163
3.0	500	579	729	906	1074	924	857	819	757	694	606	537	446	363	264
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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 30.000 PROTONS

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5.0	79	50	33	21	7	2	1	1	1	1	1	1	1	1	1
4.0	113	74	47	33	17	9	3	1	1	1	1	1	1	1	1
3.0	168	113	84	42	26	16	9	4	1	1	1	1	1	1	1
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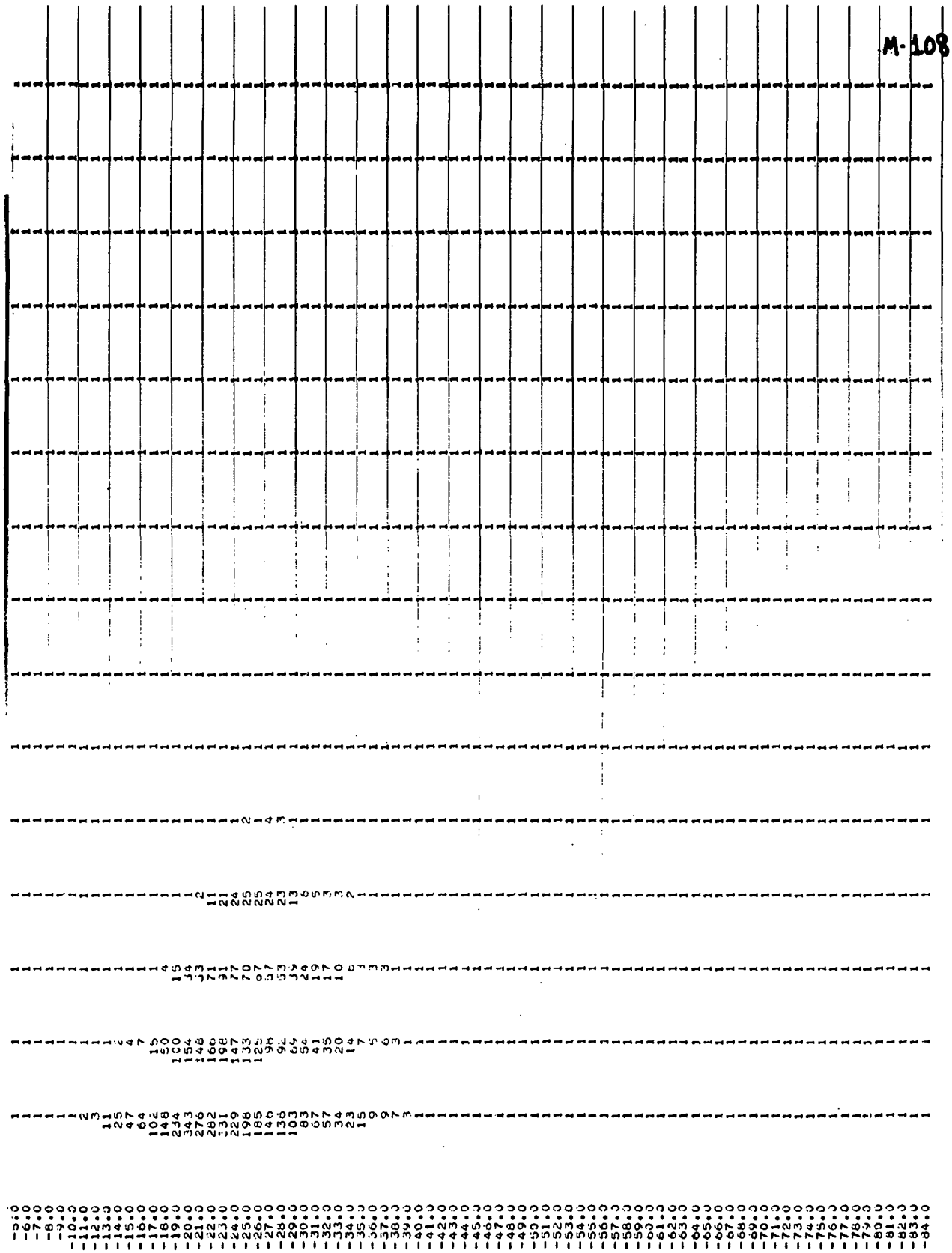
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-8.0	731	598	521	400	312	235	183	133	102	75	52	36	20	9	2
-9.0	1003	889	735	586	458	361	276	206	151	112	79	51	33	17	5
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-14.0	1527	1410	1257	1144	1043	910	785	679	580	480	379	296	224	143	77
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-16.0	2549	2226	1870	1586	1390	1202	1050	925	822	717	625	541	452	351	192
-17.0	2387	2025	1769	1571	1370	1200	1050	940	830	738	635	538	431	322	208
-18.0	2260	2049	1847	1655	1479	1360	1217	1092	974	869	749	637	521	396	270
-19.0	2370	2234	2047	1896	1816	1667	1527	1416	1283	1147	1020	853	694	535	379
-20.0	2677	2517	2334	1945	1643	1454	1298	1169	1082	995	917	849	750	623	494
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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 30.000 PROTONS

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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE: 900 KM

PROTONS: E >50. MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MAX)

ALTITUDE= 900.0 ENERGY= 50.000 PRCTONS

	-135.0	-132.0	-129.0	-126.0	-123.0	-120.0	-117.0	-114.0	-111.0	-108.0	-105.0	-102.0	-99.0	-96.0	-93.0
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46.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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43.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
42.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
41.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-1.0	1	1	1	1	1	1	2	2	1	1	1	1	3	11	27
-2.0	1	1	1	1	1	1	1	4	5	5	5	4	8	17	37
-3.0	1	1	1	1	1	1	1	3	7	10	14	18	22	32	51
-4.0	1	1	1	1	1	1	1	3	8	12	20	28	44	63	74

1	3	7	15	27	38	55	96	118	
1	3	7	18	26	38	60	110	157	
1	4	8	22	31	47	72	121	214	
1	6	13	24	36	52	78	133	241	
2	10	20	29	40	61	90	147	254	
5	15	22	32	47	71	109	174	292	
6	17	26	37	54	87	133	206	339	
5	20	31	45	68	99	160	245	419	
1	22	35	55	87	125	196	317	426	
2	15	38	68	115	168	263	336	432	
1	7	31	66	118	173	247	341	448	
1	7	24	54	104	162	233	332	447	
1	9	27	52	94	151	233	326	463	
1	9	31	60	98	161	244	358	489	
1	6	32	75	126	189	278	397	550	
1	3	16	47	99	179	283	410	564	
1	1	11	29	65	121	211	325	468	
1	1	7	23	49	92	160	255	387	
1	1	4	20	42	76	132	210	324	
1	1	2	15	39	71	119	190	296	
1	1	1	9	33	69	116	184	277	
1	1	1	4	26	69	116	187	275	
1	1	1	1	14	58	119	198	301	
1	1	1	1	5	42	121	218	334	
1	1	1	1	3	25	99	228	365	
1	1	1	1	2	19	70	169	344	
1	1	1	1	1	13	63	139	255	
1	1	1	1	1	7	51	129	222	
1	1	1	1	1	2	37	125	233	
1	1	1	1	1	1	14	110	242	
1	1	1	1	1	1	4	73	232	
1	1	1	1	1	1	6	47	181	
1	1	1	1	1	1	4	40	123	
1	1	1	1	1	1	2	37	109	
1	1	1	1	1	1	1	27	101	
1	1	1	1	1	1	1	14	91	
1	1	1	1	1	1	1	13	56	
1	1	1	1	1	1	1	9	42	
1	1	1	1	1	1	1	5	30	
1	1	1	1	1	1	1	3	19	
1	1	1	1	1	1	1	1	11	
1	1	1	1	1	1	1	1	5	
1	1	1	1	1	1	1	1	1

ALTITUDE= 900.0 ENERGY= 50.000 PROTONS

	-90.0	-87.0	-84.0	-81.0	-78.0	-75.0	-72.0	-69.0	-66.0	-63.0	-60.0	-57.0	-54.0	-51.0	-48.0
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
72.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
71.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
70.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
69.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
68.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
67.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
66.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
65.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
64.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
63.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
62.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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60.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
59.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
58.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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50.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
49.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
48.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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44.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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42.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
41.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
40.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
39.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
38.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
37.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
36.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	3	12
11.0	1	1	1	1	1	1	1	1	1	1	1	1	4	17	36
10.0	1	1	1	1	1	1	1	1	1	1	1	5	27	50	65
9.0	1	1	1	1	1	1	1	1	1	1	8	33	65	83	104
8.0	1	1	1	1	1	1	1	1	2	9	38	72	96	126	202
7.0	1	1	1	1	1	1	1	3	13	44	79	108	137	221	252
6.0	1	1	1	1	1	1	3	14	42	80	116	151	225	303	288
5.0	1	1	1	1	1	3	14	40	76	116	165	242	370	352	327
4.0	1	1	1	1	3	11	33	73	118	179	267	398	416	398	363
3.0	1	1	3	7	18	42	78	140	216	315	409	460	462	430	424
2.0	1	4	12	24	44	79	134	206	295	394	461	496	492	481	485
1.0	7	14	26	41	67	112	170	245	344	427	506	521	526	538	581
0.0	17	25	37	59	91	140	197	278	370	460	531	571	585	623	714
-1.0	48	53	64	85	118	170	238	320	406	497	573	616	672	748	877
-2.0	77	106	106	123	153	204	274	357	455	541	624	704	783	906	1050
-3.0	90	174	179	191	216	264	327	412	511	613	712	821	934	1074	1254
-4.0	114	177	280	285	307	348	423	506	609	731	836	975	1106	1276	1463

-5.0	152	208	329	411	424	466	537	625	728	853	1000	1138	1317	1500	
-6.0	193	252	368	548	558	604	679	774	893	1019	1176	1358	1526	1722	1909
-7.0	243	305	409	592	721	775	843	938	1069	1221	1380	1553	1764	1937	2115
-8.0	307	364	474	657	877	932	1018	1132	1262	1423	1591	1785	1963	2150	2290
-9.0	353	433	537	708	996	1125	1199	1314	1470	1641	1834	1992	2174	2368	2496
-10.0	408	492	618	781	1034	1296	1400	1518	1663	1835	2016	2196	2392	2556	2679
-11.0	465	548	676	865	1110	1458	1554	1701	1854	2029	2227	2416	2593	2755	2854
-12.0	499	610	748	943	1225	1601	1728	1871	2052	2216	2417	2619	2768	2894	2978
-13.0	531	655	831	1040	1333	1709	1877	2036	2226	2410	2596	2795	2921	3035	3106
-14.0	551	709	881	1129	1435	1852	2001	2177	2374	2565	2758	2936	3063	3150	3180
-15.0	571	747	941	1206	1557	1934	2112	2307	2488	2697	2896	3035	3180	3272	3266
-16.0	595	781	1011	1309	1686	1977	2185	2377	2587	2785	3006	3135	3272	3329	3327
-17.0	614	819	1067	1417	1752	2001	2218	2429	2658	2879	3076	3211	3313	3405	3407
-18.0	669	883	1152	1535	1749	1991	2235	2464	2701	2917	3092	3269	3390	3436	3463
-19.0	751	1004	1246	1471	1710	1952	2209	2467	2710	2920	3121	3283	3407	3505	3582
-20.0	738	938	1167	1408	1645	1893	2170	2443	2692	2912	3148	3309	3463	3582	3687
-21.0	632	834	1066	1316	1595	1856	2109	2394	2650	2924	3148	3342	3526	3657	3856
-22.0	556	730	972	1216	1483	1776	2066	2364	2641	2918	3186	3393	3587	3820	4096
-23.0	473	656	875	1113	1391	1674	1983	2281	2614	2857	3198	3441	3726	4096	4484
-24.0	423	590	797	1036	1307	1609	1922	2242	2590	2900	3233	3605	3975	4405	5056
-25.0	392	543	743	976	1253	1551	1893	2257	2600	2984	3393	3810	4317	5014	5369
-26.0	393	538	738	976	1230	1528	1901	2274	2667	3090	3563	4127	4899	5288	5135
-27.0	428	565	757	982	1281	1600	1944	2365	2801	3345	3981	4684	5097	5023	4859
-28.0	479	655	851	1088	1368	1729	2151	2593	3149	3818	4553	4814	4833	4750	4682
-29.0	553	775	1050	1296	1566	1975	2431	3037	3682	4256	4411	4482	4520	4544	4595
-30.0	605	804	1256	1584	2010	2446	3002	3334	3639	3873	4066	4223	4343	4457	4513
-31.0	449	702	1059	1484	1871	2292	2731	3051	3356	3606	3847	4073	4186	4341	4617
-32.0	365	572	843	1172	1565	1987	2350	2708	3052	3355	3622	3848	4096	4409	4915
-33.0	356	529	747	1015	1332	1703	2091	2477	2831	3160	3474	3809	4220	4803	4779
-34.0	367	527	733	976	1251	1576	1941	2312	2690	3071	3501	3980	4625	4523	4315
-35.0	420	584	779	1036	1301	1611	1969	2370	2808	3277	3834	4237	4154	4081	4037
-36.0	452	694	905	1154	1489	1830	2206	2607	3100	3546	3669	3738	3765	3817	3841
-37.0	276	539	850	1205	1580	1957	2341	2699	2933	3136	3296	3412	3491	3631	3923
-38.0	224	386	636	942	1273	1608	1937	2233	2495	2737	2962	3159	3423	3787	3733
-39.0	209	346	530	757	1046	1369	1674	2001	2308	2613	2911	3196	3523	3295	2855
-40.0	200	344	514	704	940	1212	1531	1833	2148	2480	2822	3039	2791	2522	2269
-41.0	153	317	545	744	960	1201	1482	1806	2167	2342	2322	2238	2123	2022	1964
-42.0	102	201	344	544	781	1004	1216	1421	1575	1674	1731	1752	1765	1798	1791
-43.0	81	159	256	378	541	718	902	1090	1228	1341	1445	1541	1653	1465	1208
-44.0	65	131	221	325	442	574	733	873	1018	1157	1294	1281	1144	1006	892
-45.0	35	80	157	279	408	541	665	801	872	896	887	849	795	735	683
-46.0	22	50	91	146	220	309	400	473	534	572	588	592	589	577	482
-47.0	12	33	63	103	150	202	258	312	364	405	437	462	422	383	347
-48.0	6	19	40	74	117	161	204	247	282	301	305	302	296	286	274
-49.0	2	10	24	43	65	93	126	152	176	196	209	216	221	208	178
-50.0	1	4	14	27	45	63	83	103	123	140	156	154	148	135	125
-51.0	1	1	5	13	26	40	57	71	83	90	96	97	98	97	88
-52.0	1	1	1	4	11	21	31	41	51	58	64	69	68	65	61
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-55.0	1	1	1	1	1	1	4	7	9	11	12	12	11	11	10
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M-110

BEST AVAILABLE COPY
POOR QUALITY

ALTITUDE= 900.0 ENERGY= 50.000 PROTONS

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ALTITUDE= 900.0 ENERGY= 50.000 PROTONS

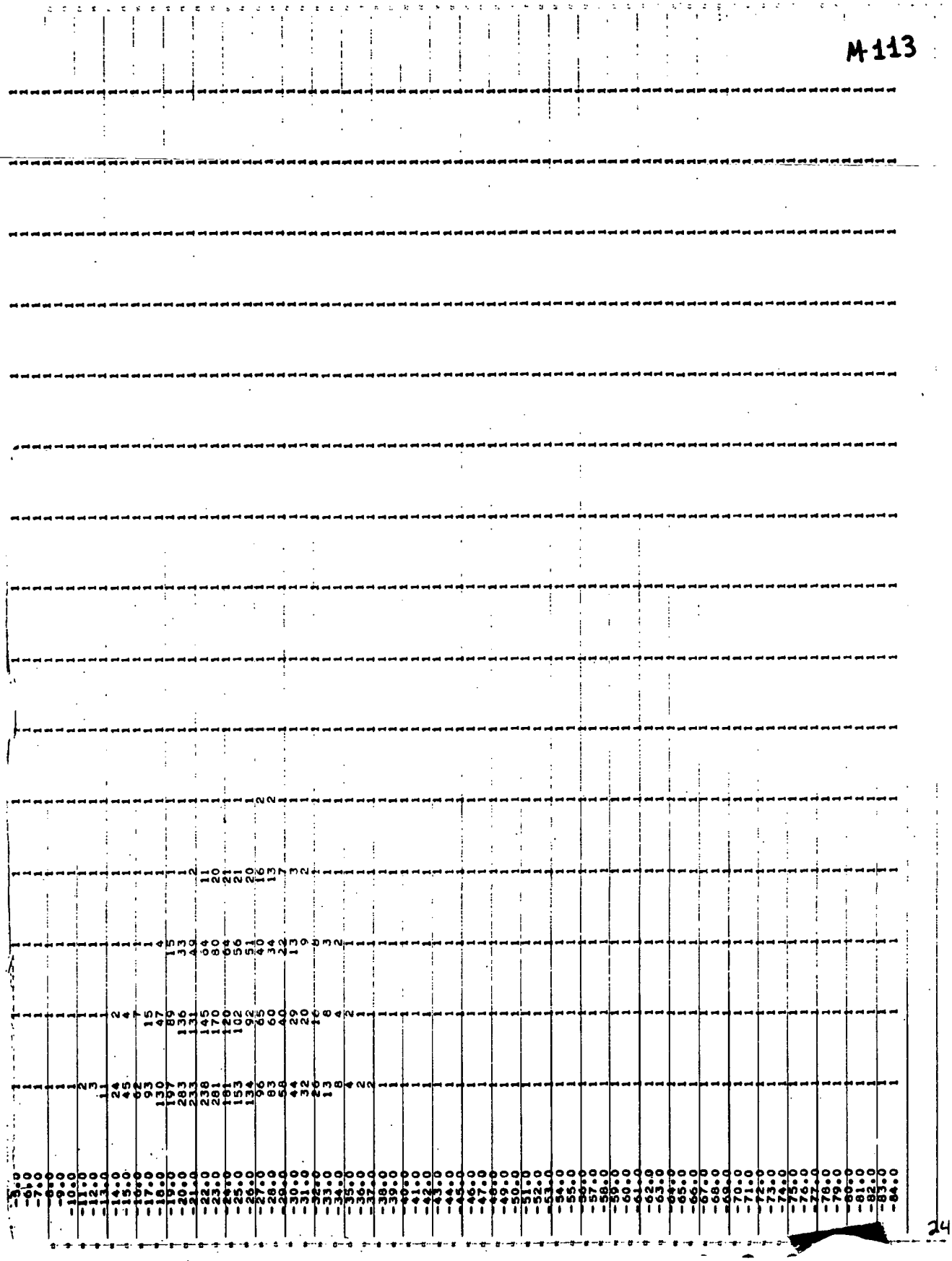
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-12.0	1112	912	702	642	533	437	367	305	249	204	161	128	89	50
-13.0	1131	985	877	757	652	555	482	411	339	282	236	186	133	86
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-15.0	1658	1575	1474	1399	1271	1141	1000	906	790	685	538	424	316	208
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-28.0	733	616	487	404	350	312	284	257	236	218	201	181	156	133
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-34.0	200	172	133	111	97	88	70	56	45	36	29	23	19	15
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ORIGINAL PAGE IS
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ALTITUDE= 900.C ENERGY= 50.000 PRCTONS

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ORIGINAL PAGE IS
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ALTITUDE: 900 KM

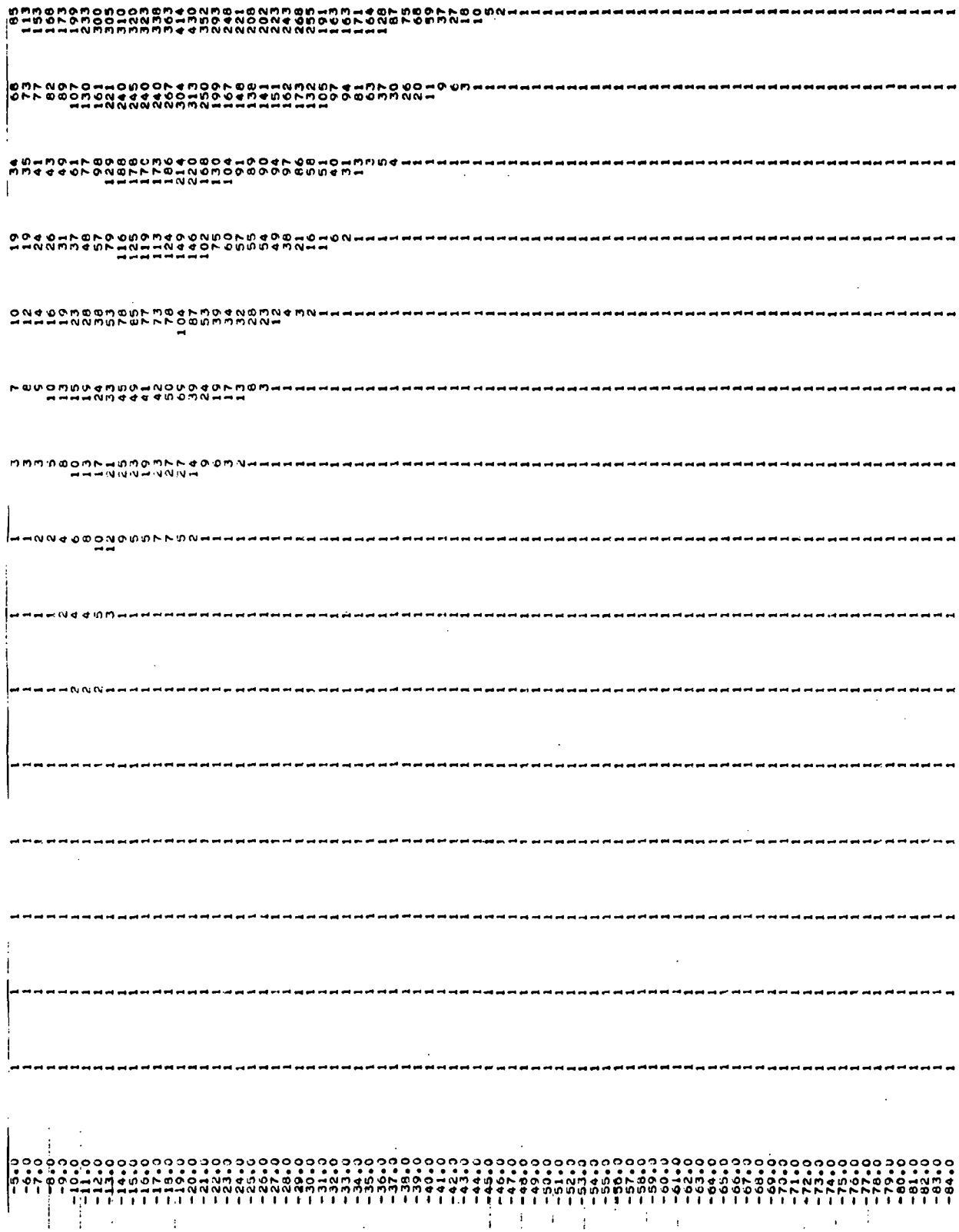
PROTONS: E >100. MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MAX)

ORIGINAL PAGE IS
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ALTITUDE= 900.0 ENERGY=100.000 PROTONS

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-1.0	1	1	1	1	1	1	1	1	1	1	1	1	2	9	24
-2.0	1	1	1	1	1	1	1	1	2	2	2	2	6	15	33
-3.0	1	1	1	1	1	1	1	1	3	4	7	11	15	25	41
-4.0	1	1	1	1	1	1	1	1	3	6	10	17	30	46	58



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ALTITUDE= 900.0 ENERGY=100.000 PROTONS

LA	-90.0	-87.0	-84.0	-81.0	-78.0	-75.0	-72.0	-69.0	-66.0	-63.0	-60.0	-57.0	-54.0	-51.0	-48.0
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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11.0	1	1	1	1	1	1	1	1	1	1	1	1	4	14	29
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9.0	1	1	1	1	1	1	1	1	1	1	7	29	50	65	86
8.0	1	1	1	1	1	1	1	1	2	8	33	54	73	100	154
7.0	1	1	1	1	1	1	1	2	11	36	60	83	107	170	187
6.0	1	1	1	1	1	1	3	12	34	62	89	117	174	224	213
5.0	1	1	1	1	2	12	32	59	88	129	184	270	259	242	
4.0	1	1	1	1	3	10	29	60	94	138	197	287	303	291	264
3.0	1	1	2	6	15	37	69	115	166	235	296	326	328	308	309
2.0	1	4	10	21	37	66	103	157	217	289	330	359	350	347	359
1.0	6	11	21	33	54	87	129	184	252	309	362	369	379	393	425
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-1.0	43	43	51	66	91	127	175	232	293	358	408	444	485	537	628
-2.0	65	93	88	99	121	157	206	265	330	390	452	506	559	647	757
-3.0	72	139	145	152	174	205	248	307	377	444	512	584	665	768	899
-4.0	88	136	219	220	238	265	317	374	443	525	595	692	787	910	1045



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ALTITUDE= 900.0 ENERGY=100.000 PROTONS

	-45.0	-42.0	-39.0	-36.0	-33.0	-30.0	-27.0	-24.0	-21.0	-18.0	-15.0	-12.0	-9.0	-6.0	-3.0
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11.0	38	63	70	64	61	68	95	133	79	58	47	39	22	11	6
10.0	84	92	87	82	86	115	160	139	104	88	79	55	29	15	8
9.0	121	113	107	105	127	176	239	163	143	122	114	67	35	20	11
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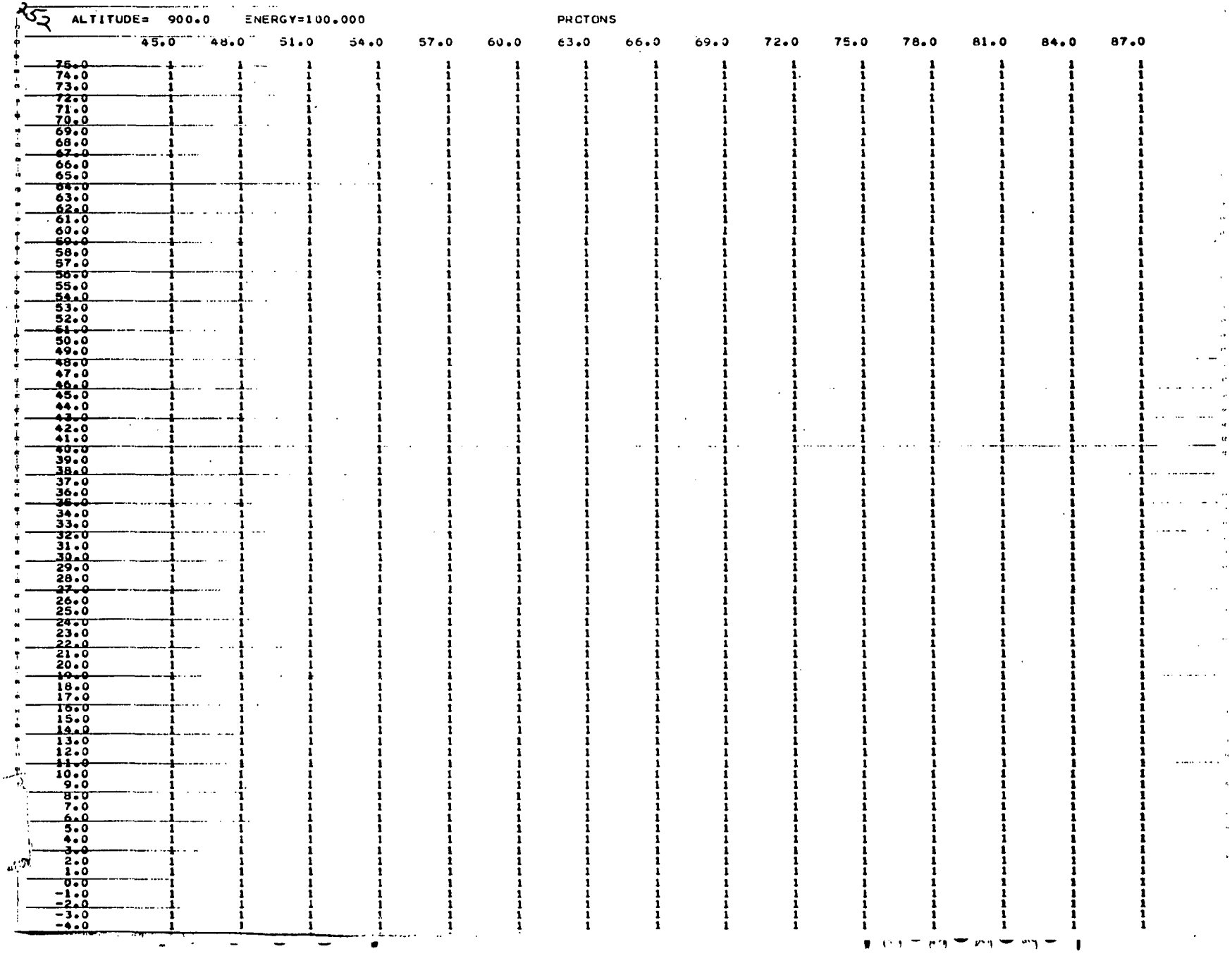
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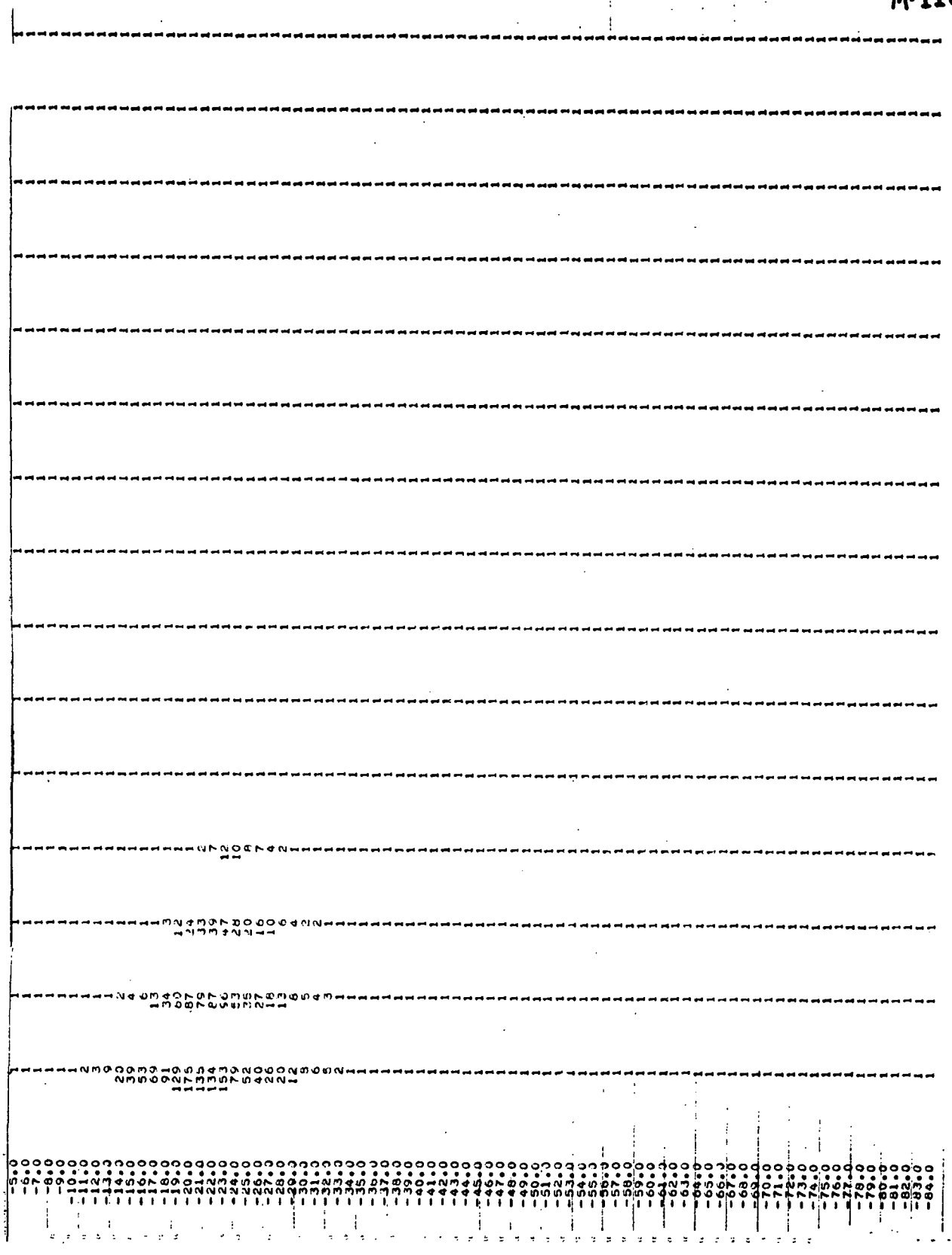
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-39.0	10	8	4	2	2	1	1	1	1	1	1	1	1	1	1
-40.0	6	3	2	1	1	1	1	1	1	1	1	1	1	1	1
-41.0	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1
-42.0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-43.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-44.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-45.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-46.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-47.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-48.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-49.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-50.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-51.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-52.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-53.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-54.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-55.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-56.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-57.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-58.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-59.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-60.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-61.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-62.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-63.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-64.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-65.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-66.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-67.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-68.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-69.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-70.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-71.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-72.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-76.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-77.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-78.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-79.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-80.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-81.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-82.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-83.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-84.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

W-117


ALTITUDE= 900.0 ENERGY=100.000 PROTONS
45.0 48.0 51.0 54.0 57.0 60.0 63.0 66.0 69.0 72.0 75.0 78.0 81.0 84.0 87.0
75.0 74.0 73.0 72.0 71.0 70.0 69.0 68.0 67.0 66.0 65.0 64.0 63.0 62.0 61.0 60.0 59.0 58.0 57.0 56.0 55.0 54.0 53.0 52.0 51.0 50.0 49.0 48.0 47.0 46.0 45.0 44.0 43.0 42.0 41.0 40.0 39.0 38.0 37.0 36.0 35.0 34.0 33.0 32.0 31.0 30.0 29.0 28.0 27.0 26.0 25.0 24.0 23.0 22.0 21.0 20.0 19.0 18.0 17.0 16.0 15.0 14.0 13.0 12.0 11.0 10.0 9.0 8.0 7.0 6.0 5.0 4.0 3.0 2.0 1.0 0.0 -1.0 -2.0 -3.0 -4.0



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE: 900 KM

PROTONS: E >300. MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MAX)

ALTITUDE= 900.0 ENERGY=300.000 PROTONS

	-135.0	-132.0	-129.0	-126.0	-123.0	-120.0	-117.0	-114.0	-111.0	-108.0	-105.0	-102.0	-99.0	-96.0	-93.0
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
72.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
71.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
70.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
69.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
68.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
67.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
66.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
65.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
64.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
63.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
62.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
61.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
60.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
59.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
58.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
57.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
56.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
55.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
54.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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52.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
51.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
50.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
49.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
48.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
47.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
46.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
45.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
44.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
43.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
42.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
41.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
40.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
39.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
38.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
37.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
36.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
35.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
34.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
33.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	2	4
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	3	6
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	2	5	9
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	3	8	11

| | | |

ALTITUDE= 900.0 ENERGY=300.000 PROTONS

	-90.0	-87.0	-84.0	-81.0	-78.0	-75.0	-72.0	-69.0	-66.0	-63.0	-60.0	-57.0	-54.0	-51.0	-48.0
75.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
74.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
72.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
71.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
70.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
69.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
68.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
67.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
66.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
65.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
64.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
63.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
62.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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48.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
47.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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44.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
43.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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41.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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39.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
38.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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33.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3
10.0	1	1	1	1	1	1	1	1	1	1	1	1	2	4	7
9.0	1	1	1	1	1	1	1	1	1	1	1	1	3	5	9	13
8.0	1	1	1	1	1	1	1	1	1	1	1	3	6	10	15	23
7.0	1	1	1	1	1	1	1	1	1	1	3	7	11	16	25	31
6.0	1	1	1	1	1	1	1	2	4	7	12	18	26	34	37
5.0	1	1	1	1	1	1	2	4	8	13	19	27	40	43	44
4.0	1	1	1	1	1	2	4	9	14	21	29	42	48	51	50
3.0	1	1	1	2	3	6	10	17	24	34	44	51	56	57	57
2.0	1	1	2	4	7	12	17	25	34	45	53	60	63	63	65
1.0	2	3	5	7	11	17	24	32	42	52	61	66	68	71	77
0.0	3	5	8	11	16	22	29	38	49	58	67	72	76	81	94
-1.0	8	9	12	15	20	27	35	45	55	64	72	79	86	97	116
-2.0	11	16	17	21	25	32	41	50	60	70	80	90	100	118	143
-3.0	14	25	26	28	33	39	47	57	68	79	91	104	121	143	174
-4.0	18	28	41	41	44	49	59	68	80	94	107	125	145	173	207

-5.0	22	32	51	80	83	86	94	104	119	135	155	179	176	208	244
-6.0	27	37	56	85	93	114	120	130	146	165	187	213	209	243	278
-7.0	32	43	62	93	111	142	150	162	177	197	220	249	246	278	311
-8.0	39	50	69	101	139	175	181	192	210	232	258	283	279	312	341
-9.0	44	58	76	108	158	207	216	227	244	265	290	317	313	346	370
-10.0	50	65	87	116	163	237	244	259	277	298	325	351	347	375	396
-11.0	58	72	94	127	173	263	275	289	310	329	355	382	378	403	418
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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY=300.000 PROTONS

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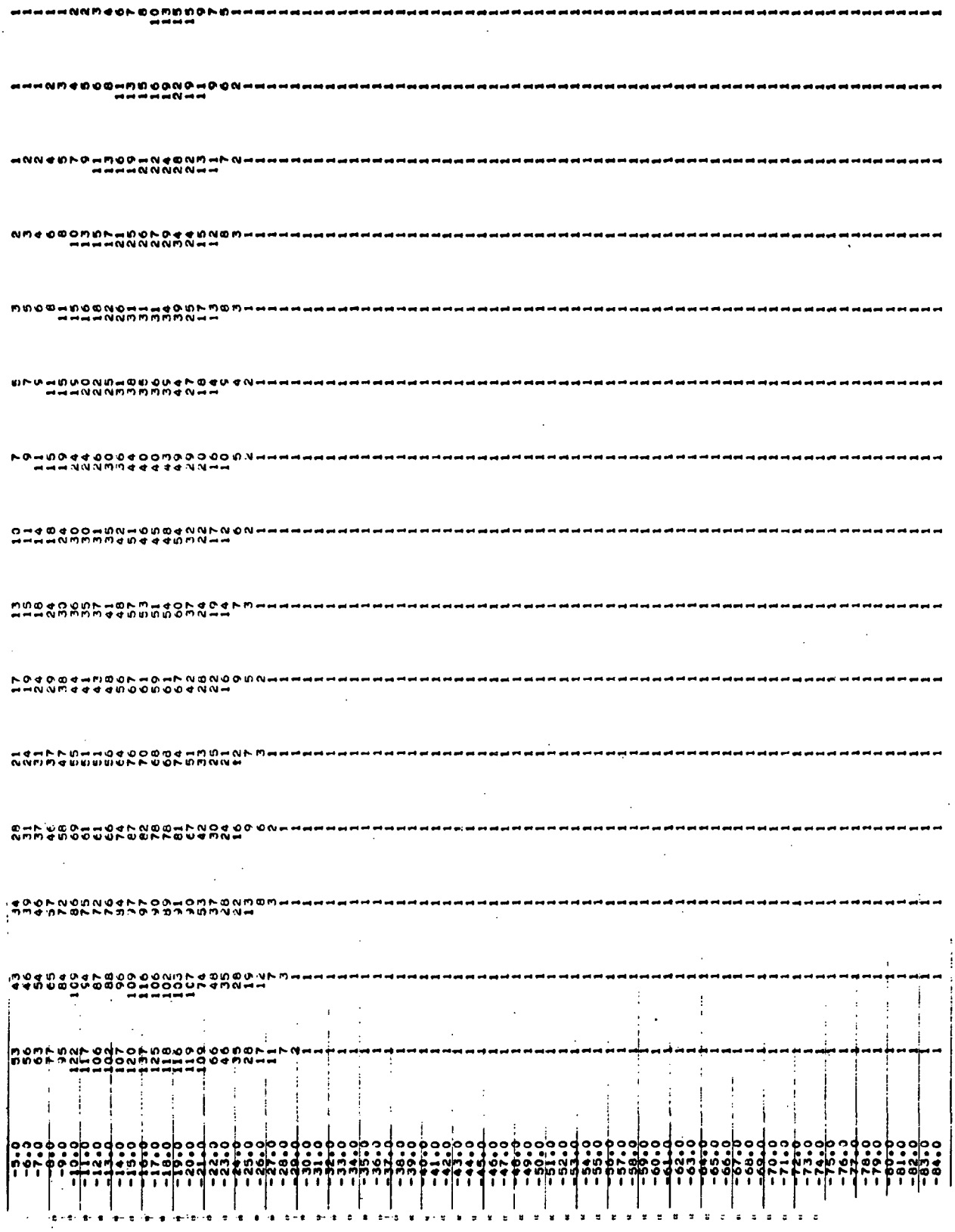
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BEST AVAILABLE COPY

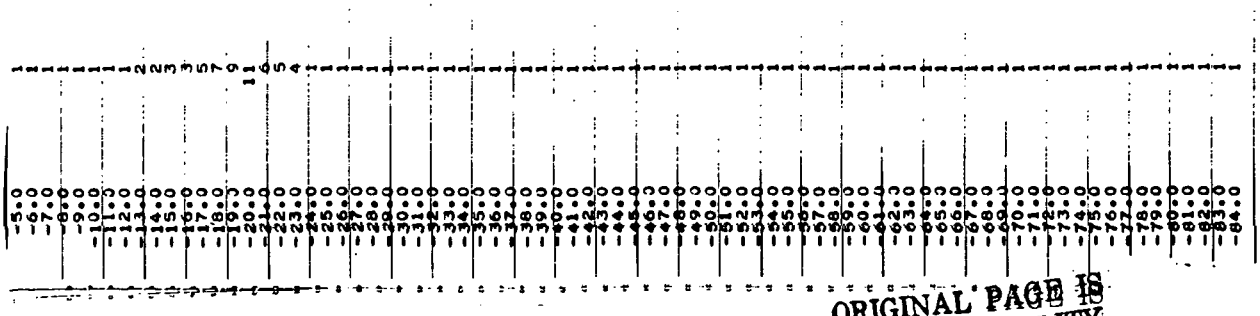
ALTITUDE= 900.0 ENERGY=300.000 PROTONS

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A_TITUDE= 900.0 ENERGY=300.000 PROTONS

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-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE: 900 KM

ELECTRONS: E > .5 MEV

INNER ZONE MODEL: AE6 (SOLAR MAX)
OUTER ZONE MODEL: AE17-HI

ORIGINAL PAGE IS
OF POOR QUALITY

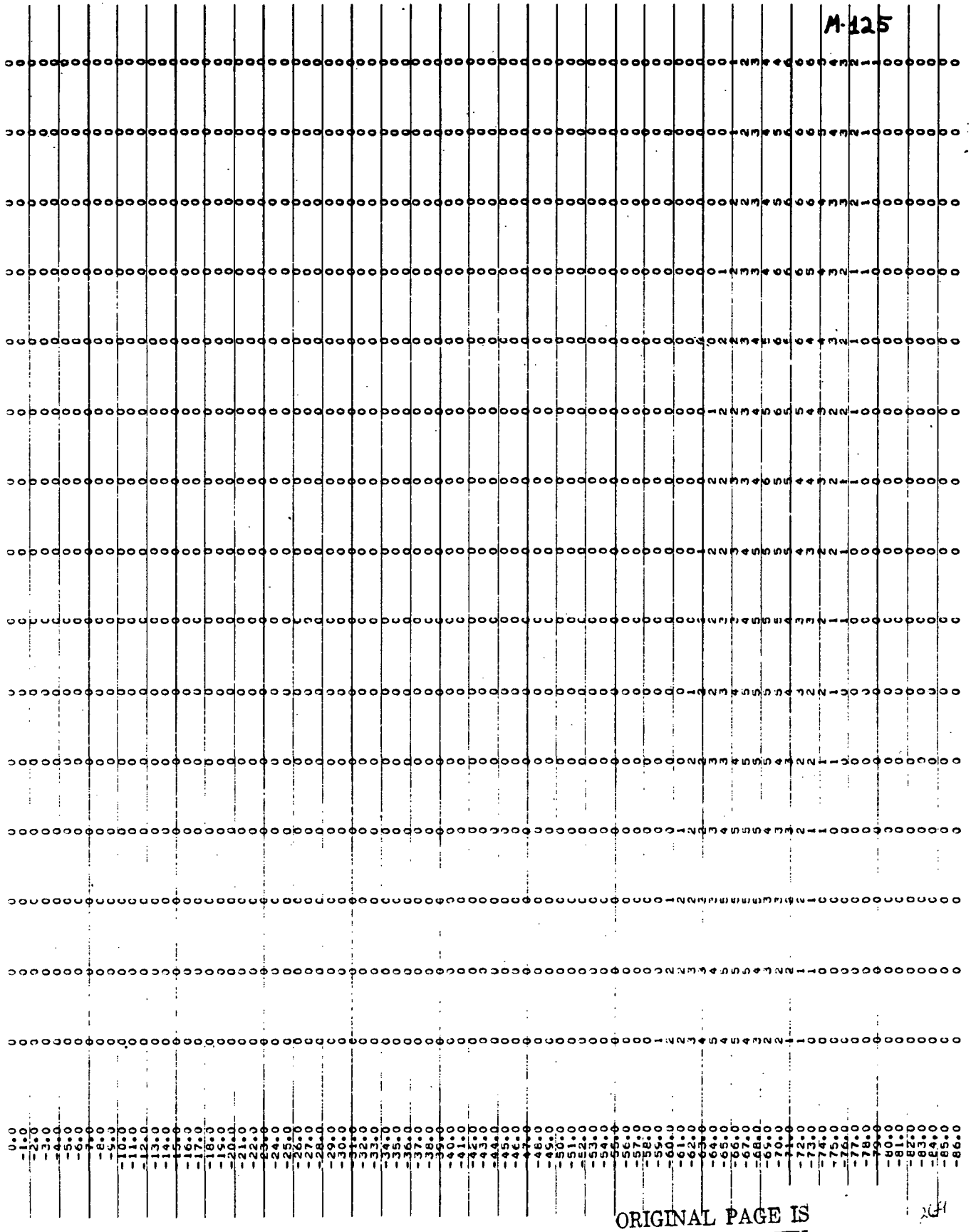
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43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

| | | |

ALTITUDE= 900.0 ENERGY= 0.500 AVFLUX/SEC= 3.996E 04 ELECTRONS

	-135.0	-132.0	-129.0	-126.0	-123.0	-120.0	-117.0	-114.0	-111.0	-108.0	-105.0	-102.0	-99.0	-96.0	-93.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0
59.0	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
58.0	4	3	3	2	2	1	1	0	0	0	0	0	0	0	0
57.0	6	4	3	3	3	2	1	1	0	0	0	0	0	0	0
56.0	5	4	4	3	3	2	2	2	1	1	0	0	0	0	0
55.0	5	5	4	5	4	3	3	2	2	1	1	0	0	0	0
54.0	3	4	5	4	4	4	3	3	2	2	2	1	1	1	0
53.0	3	3	4	5	4	4	4	4	3	3	2	2	2	1	1
52.0	2	2	3	3	4	5	4	4	4	3	3	3	2	2	2
51.0	2	2	2	3	3	4	4	4	4	4	4	3	3	3	2
50.0	0	1	2	2	2	3	3	4	4	4	4	4	4	3	3
49.0	0	0	1	1	2	2	2	3	3	4	4	4	4	4	4
48.0	0	0	0	0	1	2	2	2	3	3	4	4	4	4	4
47.0	0	0	0	0	0	1	1	2	2	2	3	3	4	4	4
46.0	0	0	0	0	0	0	0	1	1	2	2	2	3	3	3
45.0	0	0	0	0	0	0	0	0	0	1	2	2	2	2	3
44.0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	2
43.0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 0.500 AVFLUX/SEC= 3.996E 04 ELECTRONS

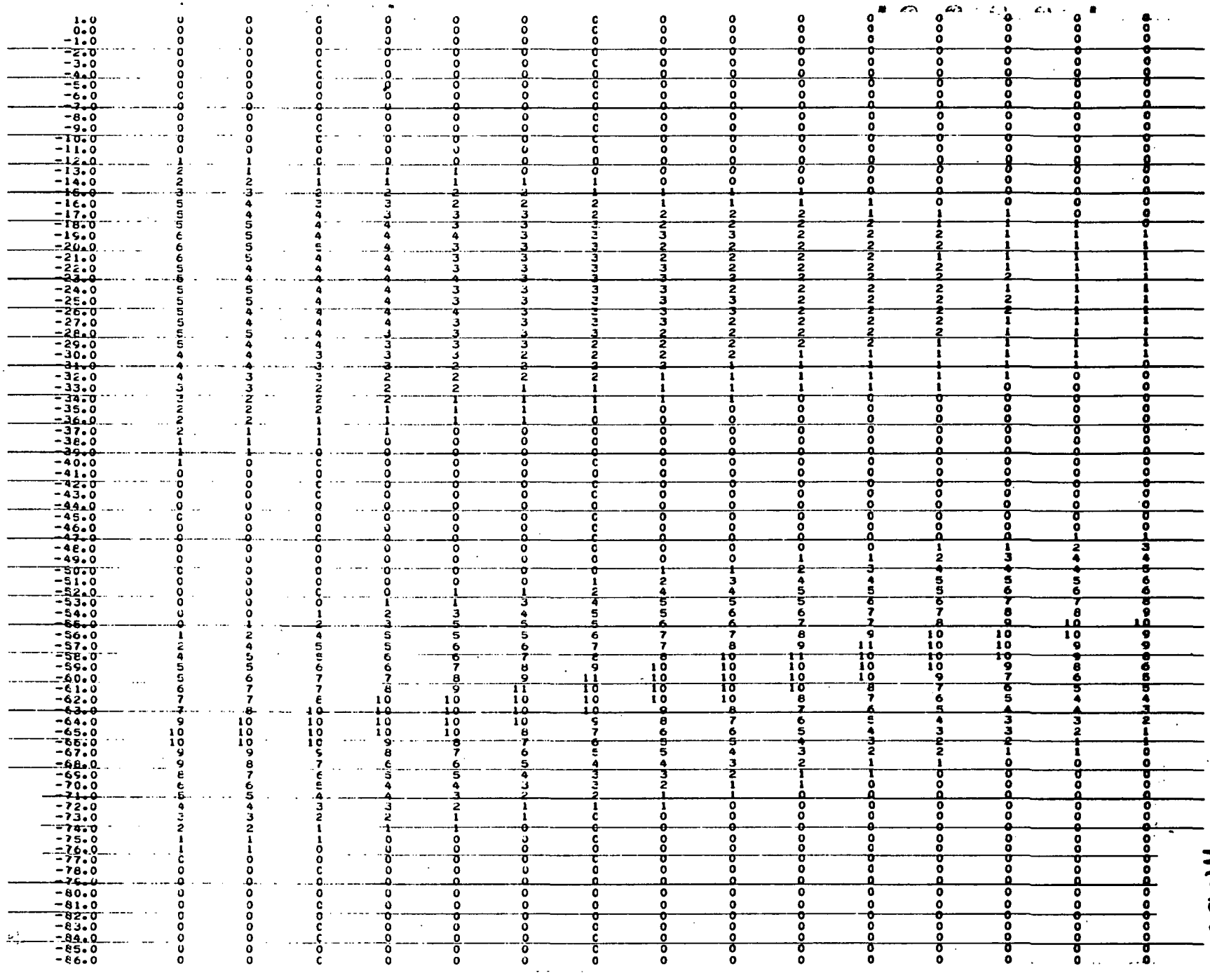
	-90.0	-87.0	-84.0	-81.0	-78.0	-75.0	-72.0	-69.0	-66.0	-63.0	-60.0	-57.0	-54.0	-51.0	-48.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
56.0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2
55.0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	3
54.0	0	0	0	0	0	0	0	1	1	1	2	2	3	3	4
53.0	1	1	1	1	1	1	1	1	2	2	2	3	3	4	5
52.0	2	2	1	1	1	2	2	2	2	3	3	3	4	5	5
51.0	2	2	2	2	2	2	2	3	3	4	4	5	5	5	6
50.0	3	3	3	3	3	3	3	3	4	4	5	5	5	6	6
49.0	4	4	4	4	4	4	4	4	5	5	5	5	5	6	6
48.0	4	4	4	4	4	4	4	4	5	5	5	4	4	5	5
47.0	4	4	4	4	4	4	5	5	5	4	4	3	3	4	5
46.0	4	4	4	5	5	5	4	4	4	3	3	3	2	3	4
45.0	3	3	3	3	3	3	3	3	3	3	2	2	2	1	3
44.0	2	2	3	3	3	3	3	2	2	2	2	2	1	0	2
43.0	2	2	2	2	2	2	2	2	2	2	1	0	0	0	1
42.0	1	1	1	2	2	2	2	1	1	0	0	0	0	0	0
41.0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ORIGINAL PAGE IS
OF POOR QUALITY

1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-8.0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
-9.0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0
-11.0	1	1	1	2	2	2	2	2	1	1	1	1	1	1	1	1	1
-12.0	1	1	2	3	3	2	2	2	2	2	2	2	2	2	1	1	1
-13.0	2	2	3	4	3	3	3	3	3	3	3	2	2	2	2	2	2
-14.0	2	3	4	4	3	3	4	4	4	3	3	3	3	3	3	3	3
-15.0	3	3	4	4	4	4	5	5	4	4	4	4	4	4	4	4	3
-16.0	4	5	5	5	4	5	5	6	6	5	5	6	5	5	5	5	5
-17.0	5	5	6	6	5	6	7	7	6	6	7	7	6	6	5	5	6
-18.0	5	6	6	7	6	7	8	7	8	9	8	8	8	8	7	7	7
-19.0	6	6	7	8	7	8	9	8	5	10	9	9	10	9	8	8	7
-20.0	6	7	9	10	10	10	10	11	11	11	11	10	9	8	8	7	6
-21.0	7	9	11	10	11	12	12	12	13	12	10	9	8	8	7	6	6
-22.0	8	11	11	11	12	14	13	14	13	11	11	9	8	8	7	6	6
-23.0	11	12	12	13	15	14	16	16	13	12	10	9	8	8	7	6	6
-24.0	12	12	13	16	15	16	17	14	13	11	9	9	7	7	6	5	5
-25.0	12	13	16	16	16	18	15	14	12	10	9	8	7	6	6	5	5
-26.0	14	15	17	17	18	17	15	13	11	10	8	7	6	6	6	5	5
-27.0	15	16	17	19	18	15	15	12	11	9	8	7	7	7	6	5	5
-28.0	16	17	19	20	16	15	13	11	10	8	7	7	6	6	5	5	5
-29.0	17	18	21	17	16	14	12	11	9	8	8	7	7	6	6	5	5
-30.0	18	21	18	16	15	13	11	10	8	8	8	7	6	6	6	5	5
-31.0	20	18	17	16	13	12	10	9	8	8	8	7	6	6	6	5	4
-32.0	18	16	16	14	12	11	9	9	8	7	6	6	5	5	4	4	4
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-34.0	15	14	13	11	10	9	9	8	7	7	6	5	4	4	3	3	3
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-36.0	12	11	10	9	9	8	7	7	6	5	5	4	3	3	3	2	2
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-40.0	8	8	7	7	6	6	5	5	4	3	3	2	2	2	1	1	1
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-42.0	6	6	6	5	5	4	4	3	3	2	2	1	1	1	1	0	0
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-50.0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
-51.0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
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-55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
-58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
-59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4
-60.0	0	0	0	0	0	0	0	0	0	0	0	1	1	3	4	5	5
-61.0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	5	6	6
-62.0	0	0	0	0	0	0	0	0	1	2	4	4	5	5	6	7	7
-63.0	0	0	0	0	0	0	1	1	3	4	4	5	5	6	7	8	8
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-69.0	4	5	6	6	7	8	9	9	9	9	9	9	9	9	9	9	9
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-75.0	6	5	5	5	5	4	5	4	4	3	3	2	3	2	2	2	2
-76.0	5	4	4	4	4	4	4	3	3	2	2	1	2	1	1	1	1
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-78.0	3	2	2	2	2	2	2	1	1	1	1	0	0	0	0	0	0
-79.0	2	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
-80.0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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-85.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-86.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ALTITUDE= 900.0 ENERGY= 0.500 AVFLUX/SEC= 3.996E 04 ELECTRONS

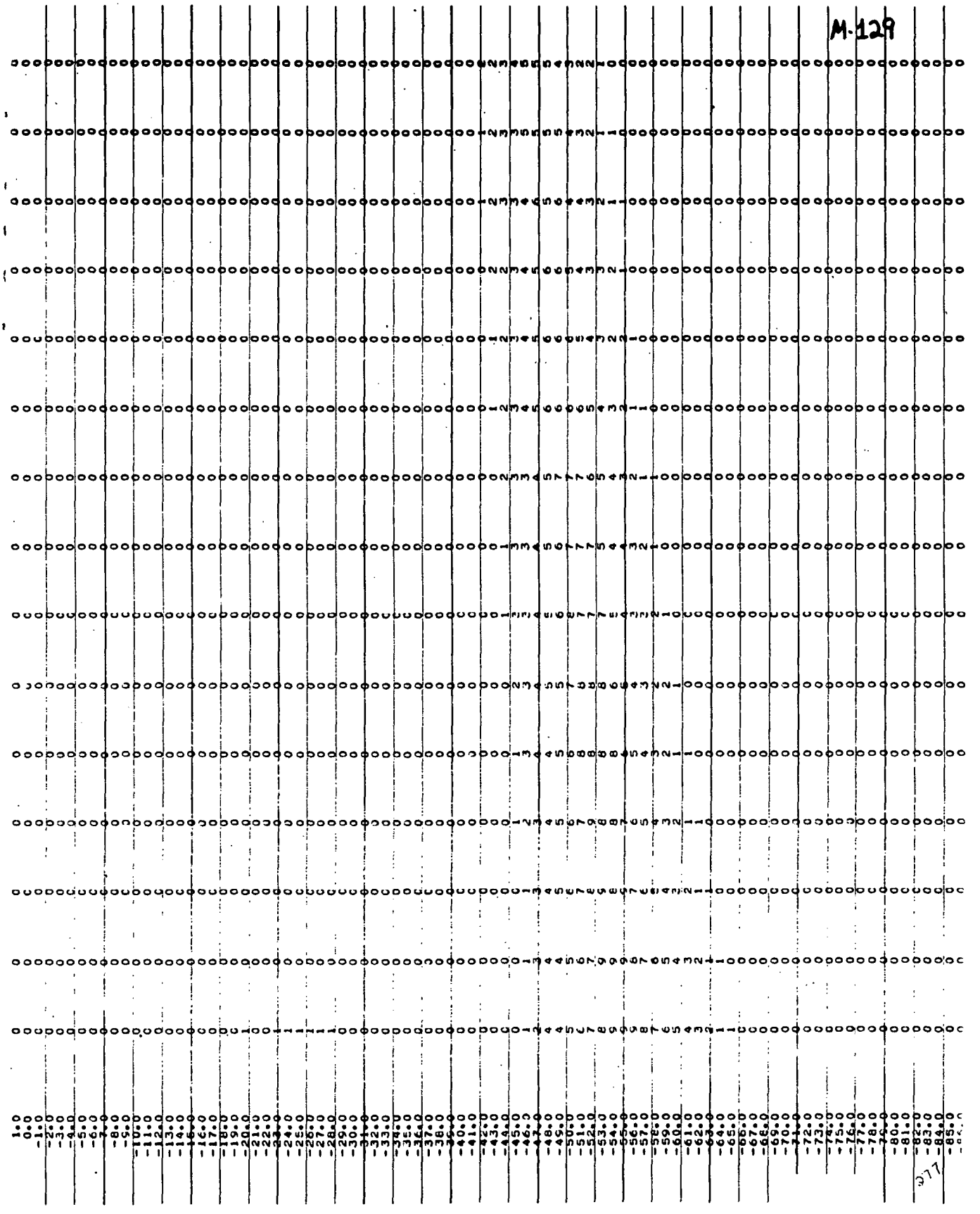
	0.0	3.0	6.0	9.0	12.0	15.0	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
69.0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1
68.0	0	0	0	0	0	1	1	1	1	1	2	2	2	2	2
67.0	0	1	1	1	1	2	2	2	2	2	2	3	3	3	3
66.0	1	1	2	2	2	3	3	3	3	3	3	3	3	4	4
65.0	1	2	3	3	3	3	4	4	4	4	4	4	4	5	5
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62.0	5	5	6	6	6	5	5	6	6	6	6	5	5	4	4
61.0	6	6	6	6	6	6	5	5	5	5	4	4	4	3	3
60.0	6	6	6	5	5	4	4	4	3	3	3	3	3	3	2
59.0	5	5	4	4	4	3	3	3	3	2	2	2	2	2	2
58.0	4	4	3	3	3	3	2	2	2	2	2	2	1	1	1
57.0	3	3	3	2	2	2	2	1	1	1	0	0	0	0	0
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55.0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



M-128

ALTITUDE= 900.0 ENERGY= 0.500 AVFLUX/SEC= 3.996E 04 ELECTRONS

	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0	75.0	78.0	81.0	84.0	87.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
70.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
69.0	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2
68.0	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3
67.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
66.0	4	4	4	4	4	4	4	4	4	5	4	4	4	4	4
65.0	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4
64.0	5	5	5	5	5	5	5	5	5	5	4	4	4	4	4
63.0	5	5	5	5	4	4	4	4	3	3	3	3	3	3	3
62.0	4	4	4	3	3	3	3	3	3	3	2	2	2	2	2
61.0	3	3	3	3	2	2	2	2	2	2	2	2	2	2	1
60.0	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1
59.0	2	2	2	1	1	1	1	1	0	0	0	0	0	0	0
58.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

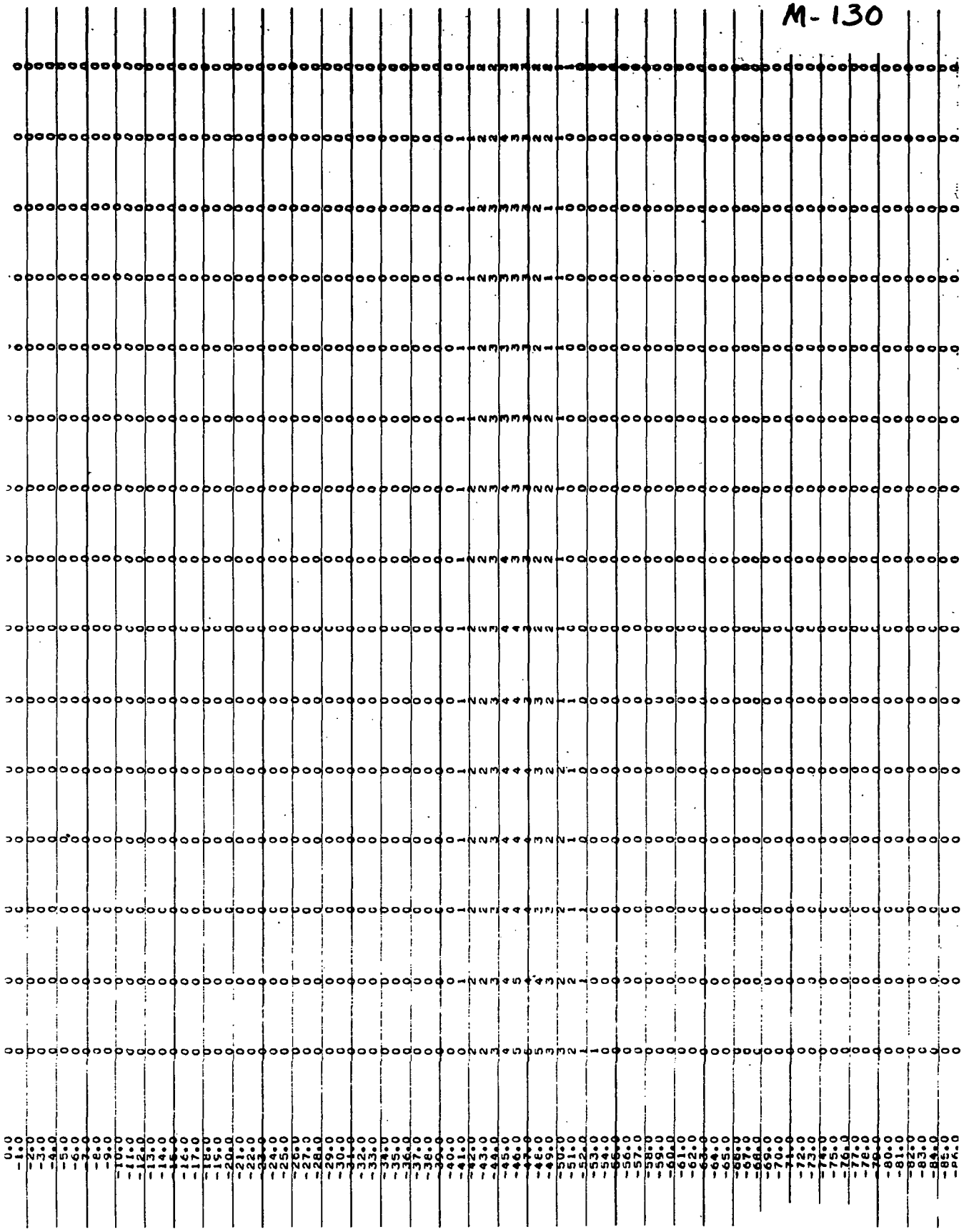


ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 0.500 AVFLUX/SEC= 3.996E 04 ELECTRONS

	90.0	93.0	96.0	99.0	102.0	105.0	108.0	111.0	114.0	117.0	120.0	123.0	126.0	129.0	132.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1
71.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
70.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
69.0	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3
68.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
67.0	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4
66.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
65.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
64.0	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3
63.0	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2
62.0	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1
61.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
60.0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

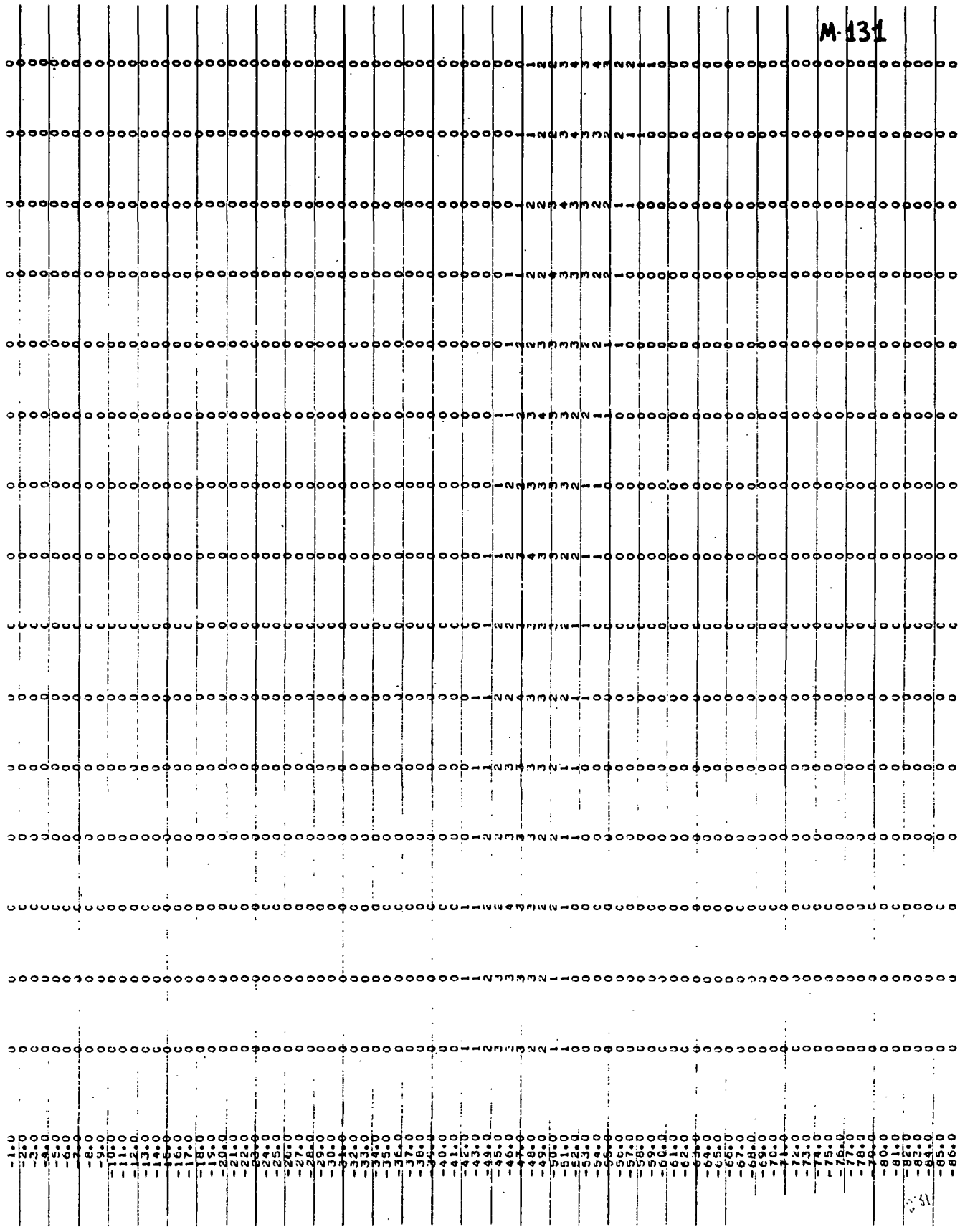
M-130



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 0.500 AVFLUX/SEC= 3.996E 04 ELECTRONS

	135.0	138.0	141.0	144.0	147.0	150.0	153.0	156.0	159.0	162.0	165.0	168.0	171.0	174.0	177.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
71.0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
70.0	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1
69.0	3	3	3	3	3	3	2	2	2	2	2	2	2	2	1
68.0	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2
67.0	4	4	4	4	4	5	5	4	4	4	4	4	3	3	3
66.0	4	4	4	4	4	4	4	4	4	4	5	5	5	4	4
65.0	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5
64.0	3	3	3	3	3	3	3	3	4	4	4	5	5	5	5
63.0	2	2	2	2	2	2	3	3	3	3	3	4	4	4	4
62.0	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3
61.0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2
60.0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	1
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



ORIGINAL PAGE IS
OF POOR QUALITY

[illegible]

[illegible]

ALTITUDE: 900 KM

ELECTRONS: E>1.0 MEV

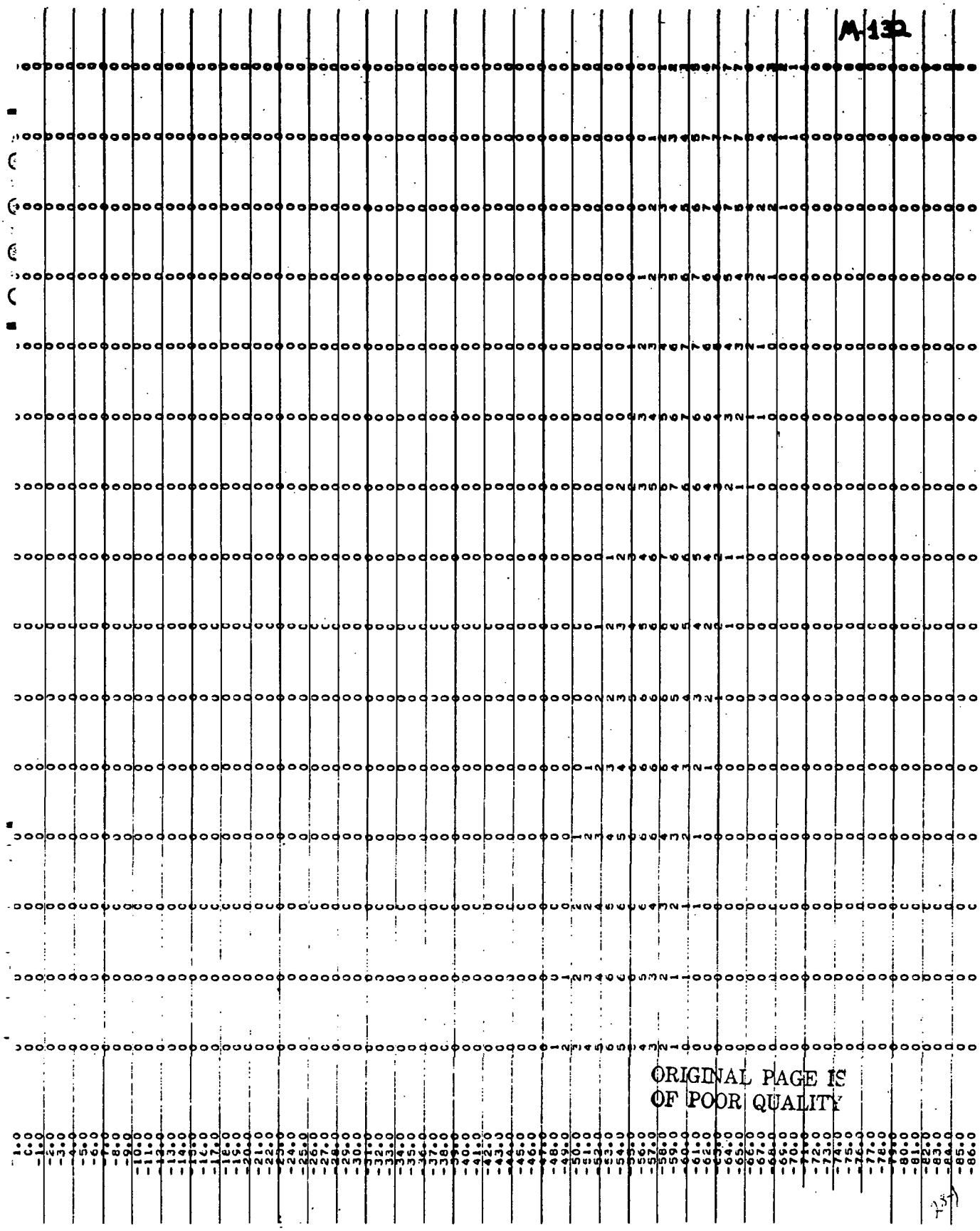
INNER ZONE MODEL: AE6 (SOLAR MAX)
OUTER ZONE MODEL: AE17-HI

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 500.0 ENERGY= 1.000 AVFLUX/SEC= 1.311E 04 ELECTRONS

	-180.0	-177.0	-174.0	-171.0	-168.0	-165.0	-162.0	-159.0	-156.0	-153.0	-150.0	-147.0	-144.0	-141.0	-138.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0
67.0	4	3	2	2	2	1	1	0	0	0	0	0	0	0	0
66.0	5	5	4	3	3	2	2	1	1	0	0	0	0	0	0
65.0	6	7	6	5	5	4	3	2	2	1	1	0	0	0	0
64.0	8	7	7	8	6	5	5	4	3	2	2	1	0	0	0
63.0	8	8	8	8	7	8	7	5	5	4	3	2	1	1	0
62.0	6	7	7	8	8	8	7	8	7	5	4	3	2	2	1
61.0	4	5	6	7	7	8	8	8	7	8	6	5	4	3	2
60.0	3	4	4	5	5	6	7	8	8	7	7	7	5	4	3
59.0	2	3	3	3	4	5	6	6	7	8	8	7	7	6	5
58.0	0	1	2	2	3	3	4	5	6	7	7	8	7	7	7
57.0	0	0	0	0	1	2	3	3	4	5	6	7	8	8	7
56.0	0	0	0	0	0	0	1	2	3	3	4	5	6	7	8
55.0	0	0	0	0	0	0	0	1	2	3	4	5	5	5	7
54.0	0	0	0	0	0	0	0	0	0	1	2	3	3	4	5
53.0	0	0	0	0	0	0	0	0	0	0	1	2	3	3	3
52.0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	2
51.0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

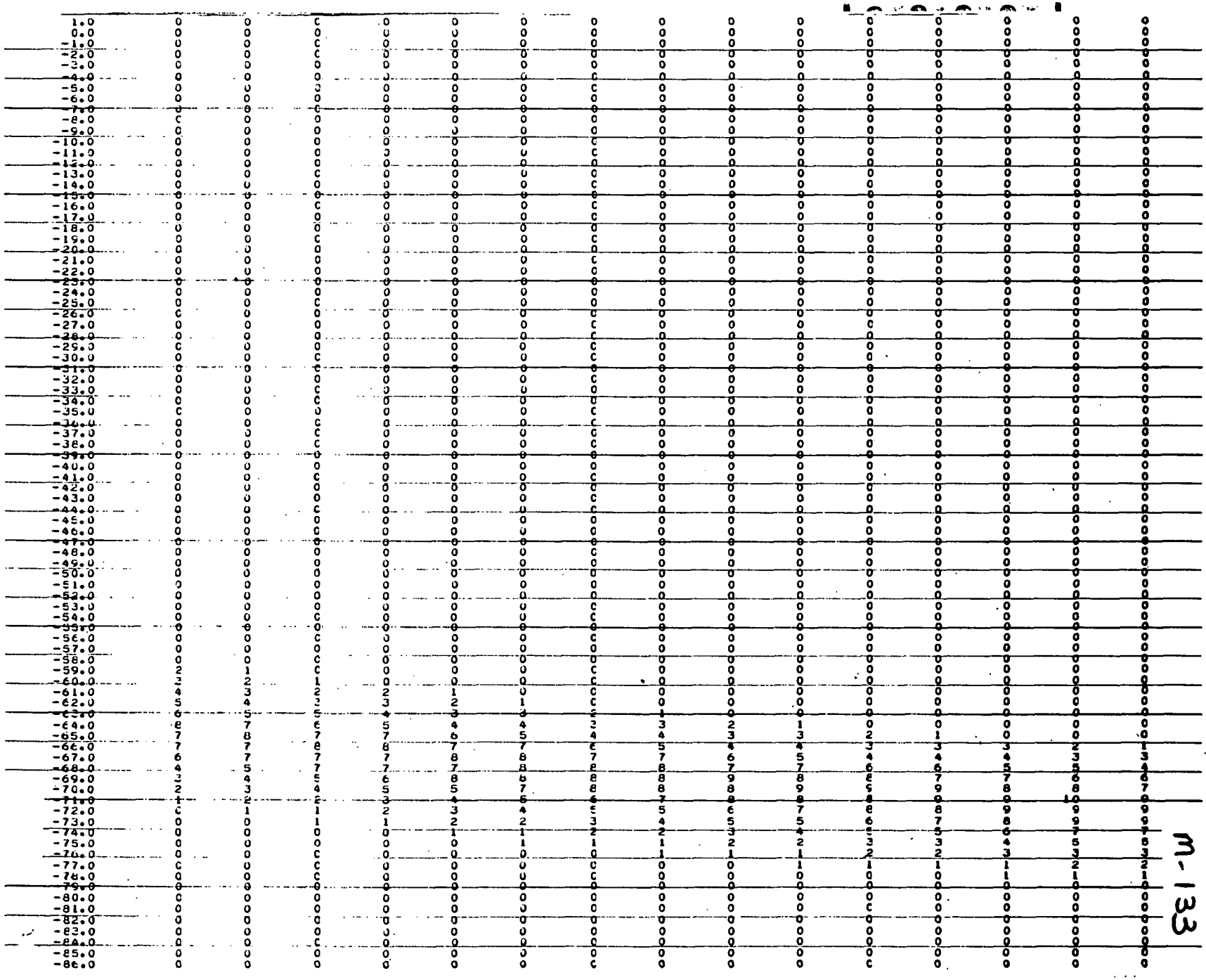
M-132



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 1.000 AVFLUX/SEC= 1.311E 04 ELECTRONS

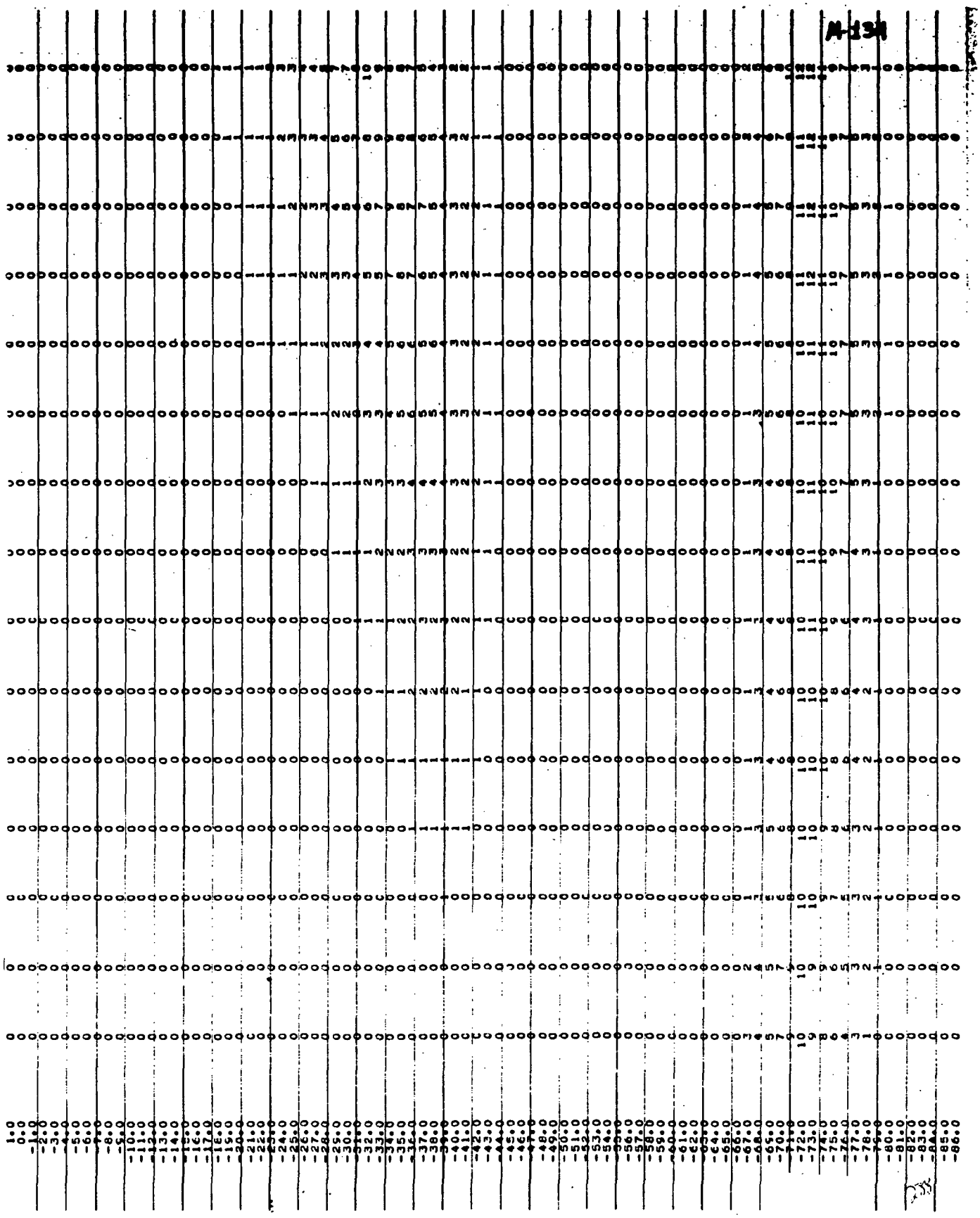
	-135.0	-132.0	-129.0	-126.0	-123.0	-120.0	-117.0	-114.0	-111.0	-108.0	-105.0	-102.0	-99.0	-96.0	-93.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0
59.0	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0
58.0	5	4	3	2	1	1	0	0	0	0	0	0	0	0	0
57.0	7	6	5	4	2	1	1	0	0	0	0	0	0	0	0
56.0	7	7	7	5	4	3	2	1	1	0	0	0	0	0	0
55.0	8	7	7	7	6	4	3	2	2	1	1	0	0	0	0
54.0	6	7	7	7	7	6	5	4	3	2	2	1	1	0	0
53.0	4	5	6	7	7	6	7	5	4	4	3	2	2	1	1
52.0	3	4	5	6	7	7	7	6	6	5	4	3	3	2	2
51.0	2	3	3	4	5	6	7	7	6	6	6	5	4	4	3
50.0	0	2	2	3	4	5	6	7	7	7	6	6	6	5	4
49.0	0	0	1	2	3	3	4	5	6	7	7	7	6	6	5
48.0	0	0	0	0	2	2	3	4	4	5	6	7	7	6	6
47.0	0	0	0	0	0	1	2	2	3	4	5	5	6	7	7
46.0	0	0	0	0	0	0	1	2	2	3	3	4	5	5	6
45.0	0	0	0	0	0	0	0	1	0	1	2	2	3	3	4
44.0	0	0	0	0	0	0	0	0	0	0	1	2	2	3	3
43.0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



M-133

ALTITUDE= 900.0 ENERGY= 1.000 AVFLUX/SEC= 1.311E 04 ELECTRONS

	-90.0	-87.0	-84.0	-81.0	-78.0	-75.0	-72.0	-69.0	-66.0	-63.0	-60.0	-57.0	-54.0	-51.0	-48.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
55.0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	3
54.0	0	0	0	0	0	0	0	0	1	1	1	2	3	4	5
53.0	1	1	1	0	1	1	1	1	1	1	2	2	3	5	6
52.0	2	1	1	1	1	1	2	2	2	2	3	4	5	6	8
51.0	3	2	2	2	2	2	3	3	4	5	5	6	7	8	9
50.0	4	4	4	4	4	4	4	5	5	6	6	7	8	8	9
49.0	6	5	5	5	5	5	6	6	7	7	7	8	8	8	9
48.0	6	6	7	7	7	7	7	7	7	7	8	8	7	7	6
47.0	7	7	7	7	7	7	7	7	8	7	7	6	5	4	3
46.0	6	7	7	7	7	7	7	7	6	6	5	4	4	3	2
45.0	5	5	6	6	6	6	6	5	5	4	4	3	3	2	1
44.0	3	4	4	4	4	4	4	4	4	3	3	2	1	1	0
43.0	2	3	3	3	3	3	3	3	3	2	1	1	0	0	0
42.0	2	2	2	2	2	2	2	2	1	1	0	0	0	0	0
41.0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 500.0 ENERGY= 1.000 AVFLUX/SEC= 1.311E 04 ELECTRONS

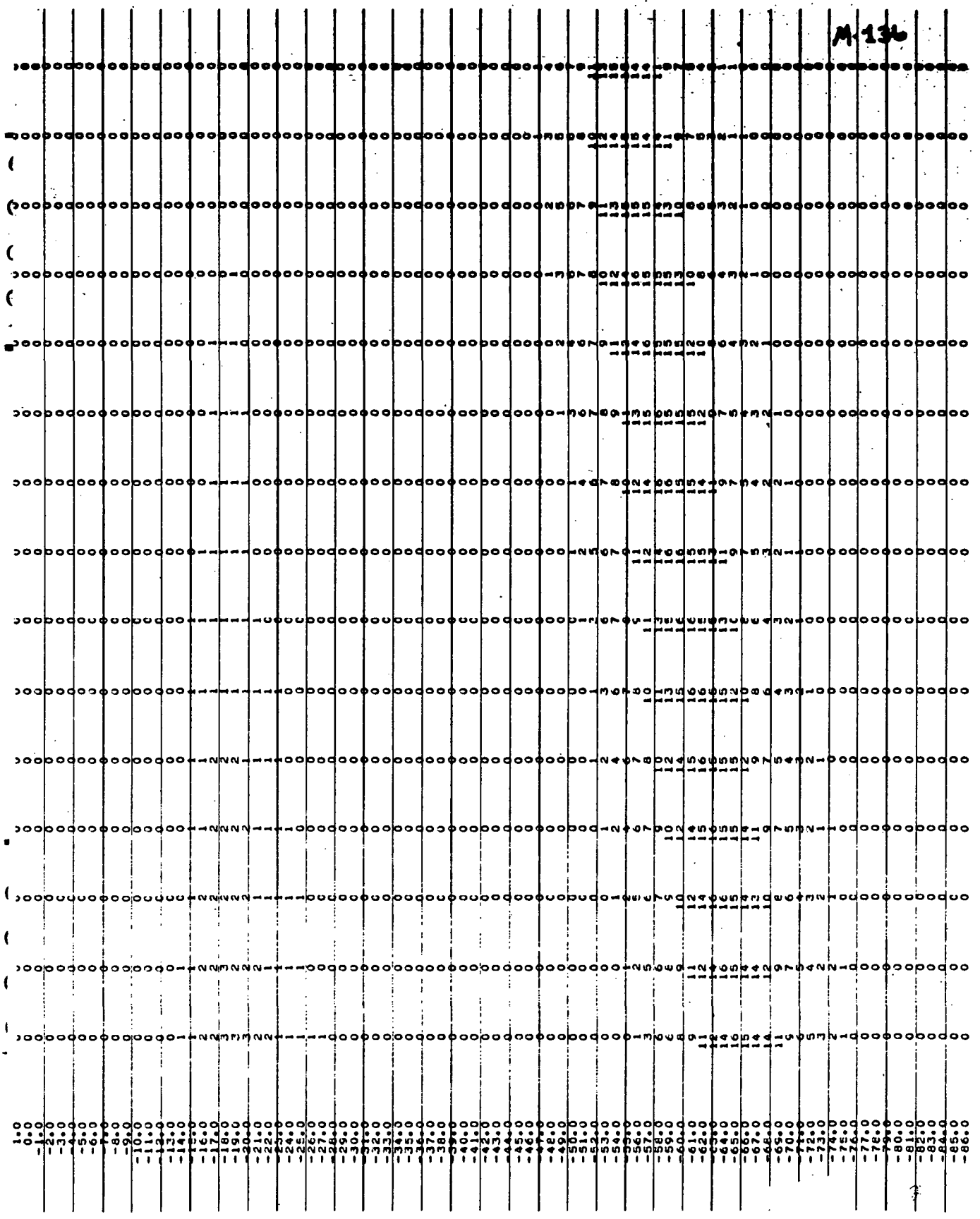
	-45.0	-42.0	-39.0	-36.0	-33.0	-30.0	-27.0	-24.0	-21.0	-18.0	-15.0	-12.0	-9.0	-6.0	-3.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
64.0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	2
63.0	0	0	0	0	0	0	0	0	0	1	1	2	3	3	4
62.0	0	0	0	0	0	0	0	1	1	2	2	3	5	5	6
61.0	0	0	0	0	0	1	1	2	3	4	5	5	6	7	9
60.0	0	0	0	1	1	2	3	3	5	5	6	8	9	9	9
59.0	0	0	1	1	2	3	4	5	6	8	9	9	9	9	10
58.0	1	1	2	3	4	5	6	8	9	9	9	9	9	8	8
57.0	1	2	3	5	6	7	8	9	9	9	9	8	7	6	6
56.0	3	4	5	6	8	8	8	9	9	8	7	6	5	4	4
55.0	5	5	7	8	8	9	9	8	7	6	5	4	4	3	3
54.0	6	8	8	8	9	8	7	6	5	4	4	3	3	1	0
53.0	8	8	9	9	8	6	8	4	4	3	2	1	0	0	0
52.0	8	9	8	7	6	5	4	3	3	1	0	0	0	0	0
51.0	9	8	6	5	4	3	3	1	0	0	0	0	0	0	0
50.0	7	6	5	4	3	2	0	0	0	0	0	0	0	0	0
49.0	5	4	3	3	1	0	0	0	0	0	0	0	0	0	0
48.0	4	3	2	0	0	0	0	0	0	0	0	0	0	0	0
47.0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ORIGINAL PAGE IS
OF POOR QUALITY

M-136

ALTITUDE= 900.0 ENERGY= 1.000 AVFLUX/SEC= 1.311E 04 ELECTRONS

	0.0	3.0	6.0	9.0	12.0	15.0	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
68.0	0	0	0	0	0	0	1	1	1	1	1	2	2	2	2
67.0	0	0	0	1	1	1	1	2	2	2	3	3	3	3	3
66.0	1	1	1	2	2	2	3	3	3	4	4	5	5	5	5
65.0	2	2	3	3	3	4	5	5	5	6	6	6	7	7	7
64.0	3	4	4	5	5	6	6	7	7	8	8	8	8	8	8
63.0	5	5	6	7	8	8	8	8	8	8	8	8	8	8	8
62.0	7	8	9	8	8	8	8	9	9	9	9	8	8	7	7
61.0	9	9	9	9	9	9	9	8	8	7	7	6	6	6	6
60.0	9	9	9	9	8	8	7	6	6	5	5	5	4	4	4
59.0	9	8	7	7	6	6	5	5	4	4	4	3	3	3	3
58.0	7	6	5	5	4	4	4	3	3	3	3	2	2	1	1
57.0	5	4	4	3	3	3	2	2	1	1	0	0	0	0	0
56.0	3	3	3	2	1	1	0	0	0	0	0	0	0	0	0
55.0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

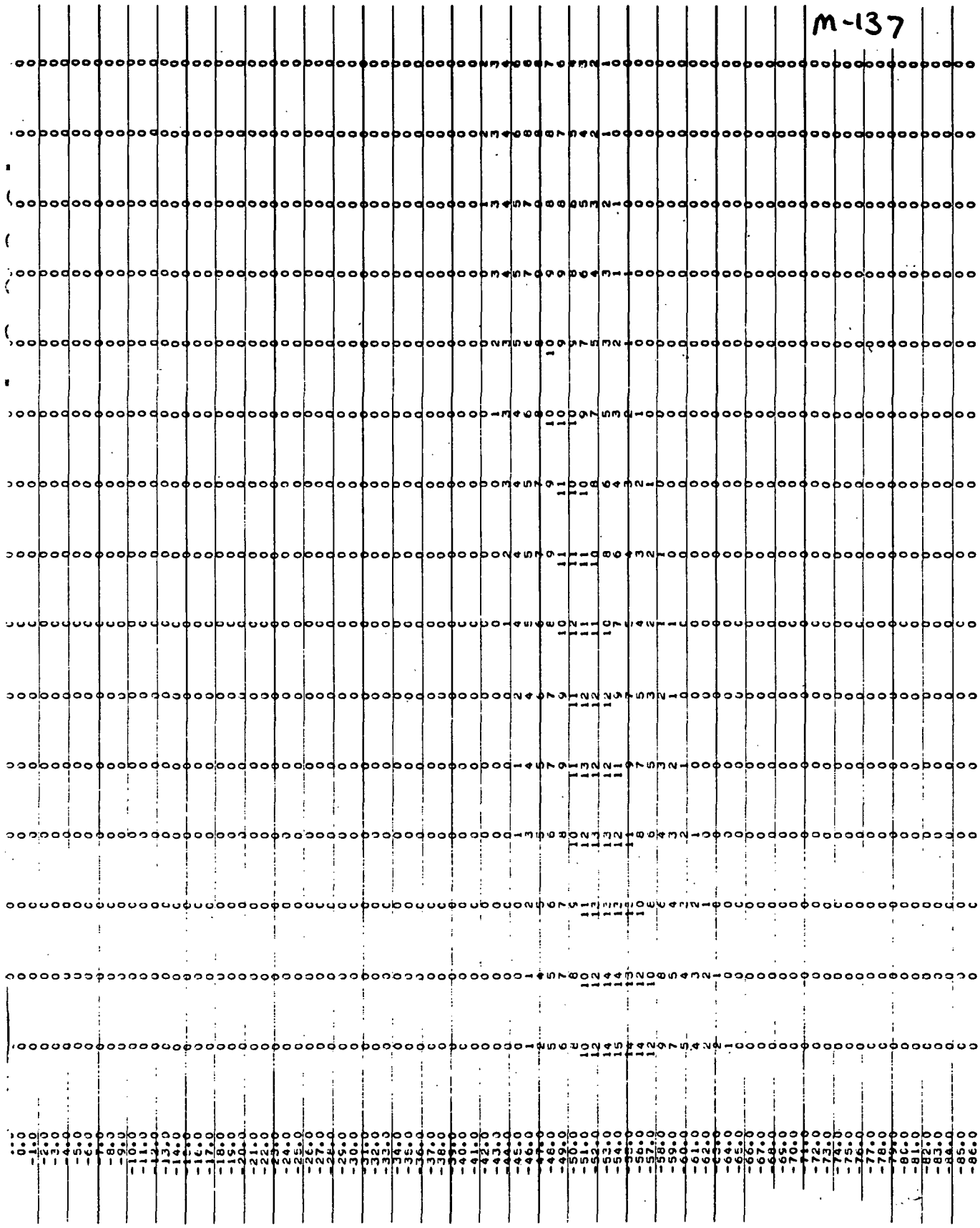


ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 1.000 AVFLUX/SEC= 1.311E 04 ELECTRONS

	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0	75.0	78.0	81.0	84.0	87.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
70.0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
69.0	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2
68.0	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4
67.0	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5
66.0	5	5	6	6	6	6	6	6	7	7	7	7	6	6	6
65.0	6	8	7	7	7	7	7	7	6	6	6	6	6	6	6
64.0	7	7	7	7	7	7	7	7	7	7	7	7	7	6	6
63.0	8	6	8	7	7	7	7	6	6	6	6	5	5	5	5
62.0	7	6	6	6	5	5	5	5	4	4	4	4	4	4	3
61.0	5	5	4	4	4	4	3	3	3	3	3	3	3	2	2
60.0	4	3	3	3	3	3	2	2	2	2	2	2	2	2	2
59.0	2	2	2	2	2	2	1	1	1	1	0	0	0	0	0
58.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

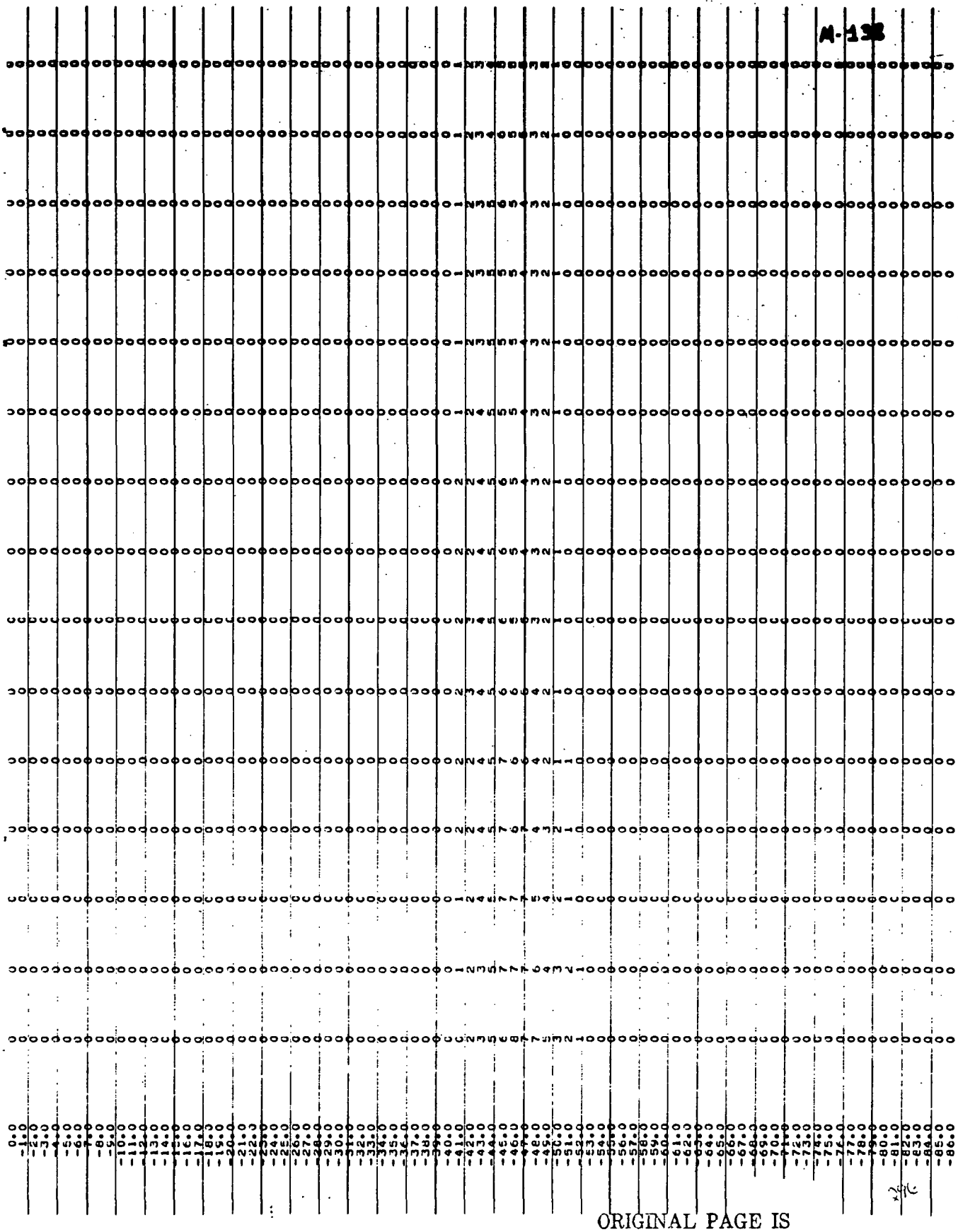
M-137



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 1.000 AVFLUX/SEC= 1.311E 04 ELECTRONS

	90.0	93.0	96.0	99.0	102.0	105.0	108.0	111.0	114.0	117.0	120.0	123.0	126.0	129.0	132.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
70.0	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2
69.0	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3
68.0	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5
67.0	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6
66.0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
65.0	6	6	6	6	6	6	6	7	7	6	6	6	6	6	6
64.0	6	6	6	6	5	5	5	5	5	5	5	5	5	5	5
63.0	5	4	4	4	4	4	4	4	4	4	3	3	3	3	3
62.0	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2
61.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1
60.0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 1.000 AVFLUX/SEC= 1.311E 04 ELECTRONS

	135.0	138.0	141.0	144.0	147.0	150.0	153.0	156.0	159.0	162.0	165.0	168.0	171.0	174.0	177.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
70.0	2	2	2	2	2	2	2	2	1	1	1	1	1	1	0
69.0	3	3	3	3	3	3	3	3	3	2	2	2	2	2	1
68.0	5	5	5	5	5	5	5	4	4	4	4	3	3	3	2
67.0	6	6	6	7	7	7	7	7	6	6	5	5	5	5	4
66.0	6	6	6	7	7	7	7	7	7	7	7	7	7	7	6
65.0	6	7	7	7	7	7	7	8	7	7	7	7	7	7	7
64.0	5	5	5	5	5	6	6	6	7	7	7	8	8	8	8
63.0	3	3	4	4	4	4	4	5	5	5	6	6	7	7	7
62.0	2	2	2	2	3	3	3	3	3	4	4	5	5	6	6
61.0	1	1	1	2	2	2	2	2	2	3	3	3	4	4	4
60.0	0	0	0	0	0	0	0	0	0	1	1	2	2	2	3
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-42.0	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
-43.0	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0
-44.0	4	3	3	2	2	1	1	0	0	0	0	0	0	0	0	0
-45.0	5	5	4	4	3	3	2	2	1	2	1	1	0	0	0	0
-46.0	5	5	6	5	5	4	6	3	3	2	3	2	1	1	0	0
-47.0	5	5	6	5	5	6	4	6	4	3	3	3	2	1	1	0
-48.0	3	4	5	5	5	5	6	5	5	6	4	5	3	3	2	1
-49.0	2	3	3	3	4	5	5	6	5	5	6	5	4	3	3	2
-50.0	1	1	2	2	3	3	4	5	5	4	5	6	5	4	4	3
-51.0	1	1	1	1	2	2	3	3	4	3	4	5	5	5	5	4
-52.0	0	0	0	1	1	1	1	2	3	3	3	4	5	5	6	5
-53.0	0	0	0	0	0	0	1	1	2	2	3	3	4	5	5	6
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-55.0	0	0	0	0	0	0	0	0	0	1	1	1	2	3	3	4
-56.0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	3
-57.0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2
-58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
-59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
-60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
-61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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-75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-82.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-83.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-84.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-85.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-86.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

M-139

ALTITUDE: 900 KM

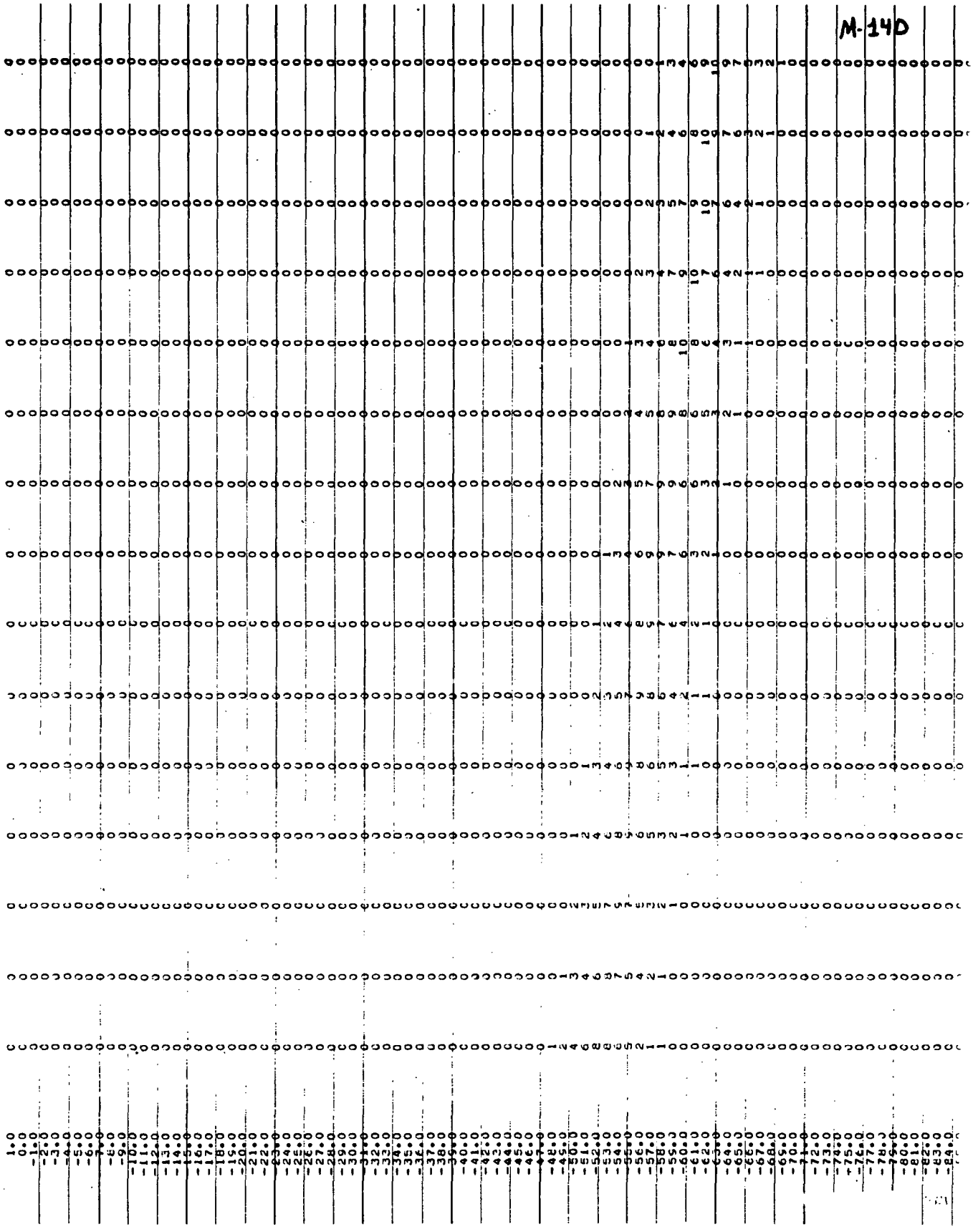
ELECTRONS: E>2.0 MEV

INNER ZONE MODEL: AE6 (SOLAR MAX)
OUTER ZONE MODEL: AE17-HI

ALTITUDE= 900.0 ENERGY= 2.000 AVFLUX/SEC= 3.481E 03 ELECTRONS

	-180.0	-177.0	-174.0	-171.0	-168.0	-165.0	-162.0	-159.0	-156.0	-153.0	-150.0	-147.0	-144.0	-141.0	-138.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0
66.0	4	3	2	2	1	1	1	0	0	0	0	0	0	0	0
65.0	7	6	4	4	3	2	1	1	0	0	0	0	0	0	0
64.0	9	8	7	7	5	4	3	2	1	1	0	0	0	0	0
63.0	11	11	10	8	7	7	5	4	3	2	1	1	0	0	0
62.0	9	10	11	12	10	9	8	7	5	4	3	2	1	0	0
61.0	6	7	8	10	11	12	10	9	7	7	5	3	2	1	1
60.0	4	5	6	7	8	10	11	12	10	8	7	6	4	3	2
59.0	2	3	4	4	5	6	8	10	11	12	10	8	7	5	3
58.0	0	1	2	3	3	4	5	6	8	10	11	11	9	7	6
57.0	0	0	0	0	1	3	3	4	6	7	9	10	11	10	8
56.0	0	0	0	0	0	0	1	3	3	5	6	7	9	11	11
55.0	0	0	0	0	0	0	0	0	2	3	4	5	6	8	10
54.0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	7
53.0	0	0	0	0	0	0	0	0	0	0	0	1	3	3	5
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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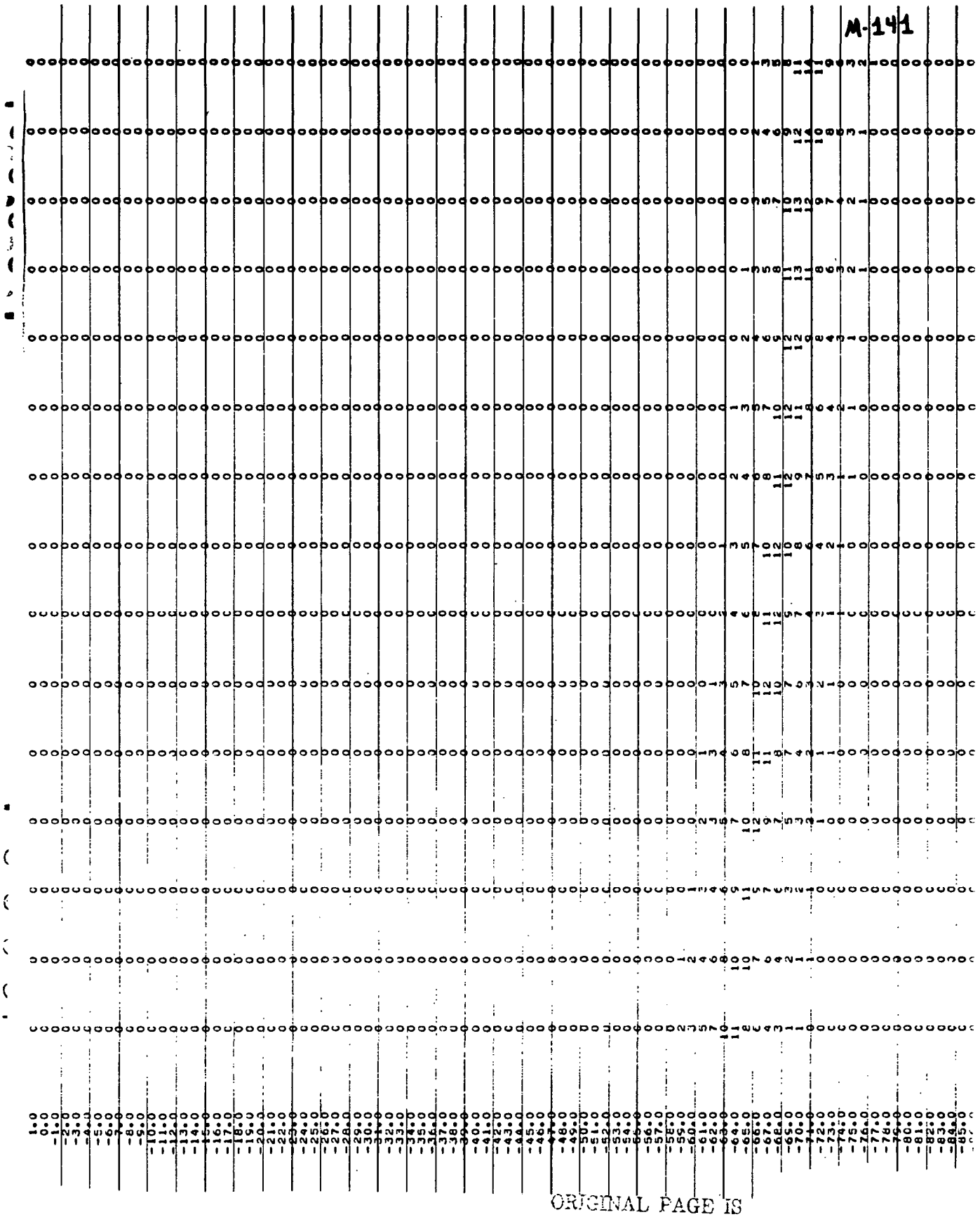
M-14D



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 2.000 AMPS/CM2/SEC= 3.481E 05 ELECTRONS

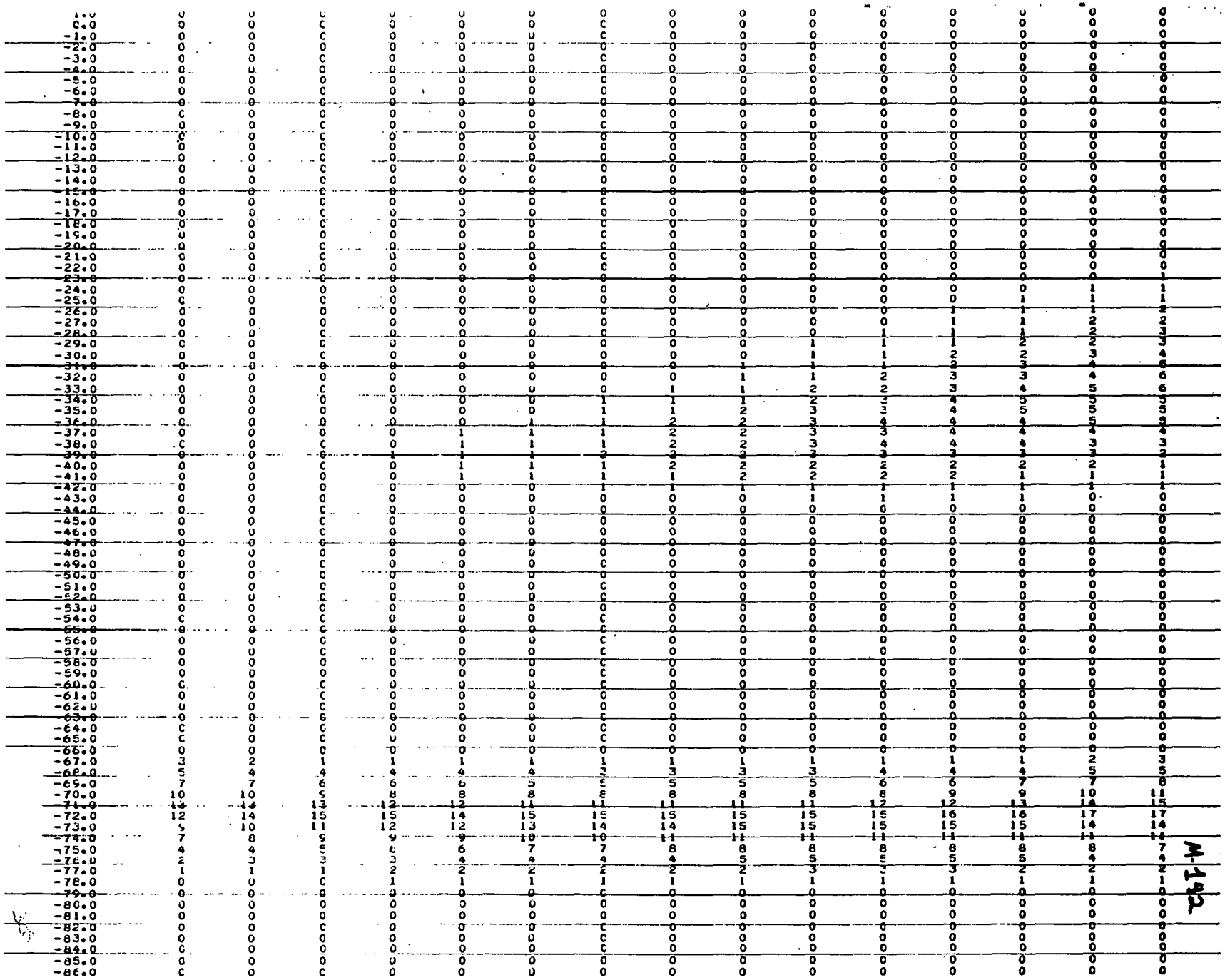
	-135.0	-132.0	-129.0	-126.0	-123.0	-120.0	-117.0	-114.0	-111.0	-108.0	-105.0	-102.0	-99.0	-96.0	-93.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59.0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
58.0	4	3	2	1	0	0	0	0	0	0	0	0	0	0	0
57.0	7	5	3	2	1	1	0	0	0	0	0	0	0	0	0
56.0	8	7	6	4	2	1	1	0	0	0	0	0	0	0	0
55.0	11	9	7	6	4	3	2	1	1	0	0	0	0	0	0
54.0	9	10	10	8	6	5	4	2	2	1	1	0	0	0	0
53.0	6	8	10	11	9	7	6	4	3	2	1	1	1	0	0
52.0	4	5	7	9	10	10	7	6	5	4	3	2	1	1	1
51.0	2	3	5	6	8	9	10	9	7	6	5	3	3	2	2
50.0	0	2	3	4	6	7	9	10	10	8	6	6	5	4	3
49.0	0	0	1	2	3	4	6	7	8	10	8	7	6	6	5
48.0	0	0	0	0	2	3	4	5	6	8	9	10	9	8	7
47.0	0	0	0	0	0	1	2	3	4	5	7	8	9	10	10
46.0	0	0	0	0	0	0	1	2	3	3	4	5	7	8	9
45.0	0	0	0	0	0	0	0	1	2	3	4	4	5	6	6
44.0	0	0	0	0	0	0	0	0	1	2	3	3	4	5	5
43.0	0	0	0	0	0	0	0	0	0	1	2	2	3	4	4
42.0	0	0	0	0	0	0	0	0	0	0	1	2	2	3	3
41.0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	3
40.0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2
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37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 2.000 AVFLUX/SEC= 3.481E 03 ELECTRONS

	-90.0	-87.0	-84.0	-81.0	-78.0	-75.0	-72.0	-69.0	-66.0	-63.0	-60.0	-57.0	-54.0	-51.0	-48.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
54.0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	3
53.0	0	0	0	0	0	0	0	0	0	1	1	2	3	4	5
52.0	0	0	0	0	0	0	1	1	1	1	2	3	4	7	8
51.0	1	1	1	1	1	1	1	2	2	3	4	6	7	8	10
50.0	3	2	2	2	2	2	3	3	4	5	7	7	9	11	12
49.0	5	4	4	4	4	4	5	6	7	7	8	10	12	11	9
48.0	6	6	6	6	6	6	7	7	8	10	11	11	10	8	6
47.0	9	8	8	8	8	8	9	10	11	11	10	9	7	5	4
46.0	9	10	10	10	10	10	10	10	10	9	7	6	5	4	3
45.0	7	8	9	9	9	9	8	8	7	6	5	4	3	2	0
44.0	6	5	6	6	6	6	6	5	5	4	3	2	1	0	0
43.0	3	4	4	4	4	4	4	3	3	2	1	0	0	0	0
42.0	2	2	2	3	3	3	2	2	1	0	0	0	0	0	0
41.0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



M-142

ALTITUDE= 900.0 ENERGY= 2.000 AVFLUX/SEC= 3.481E 03 ELECTRONS

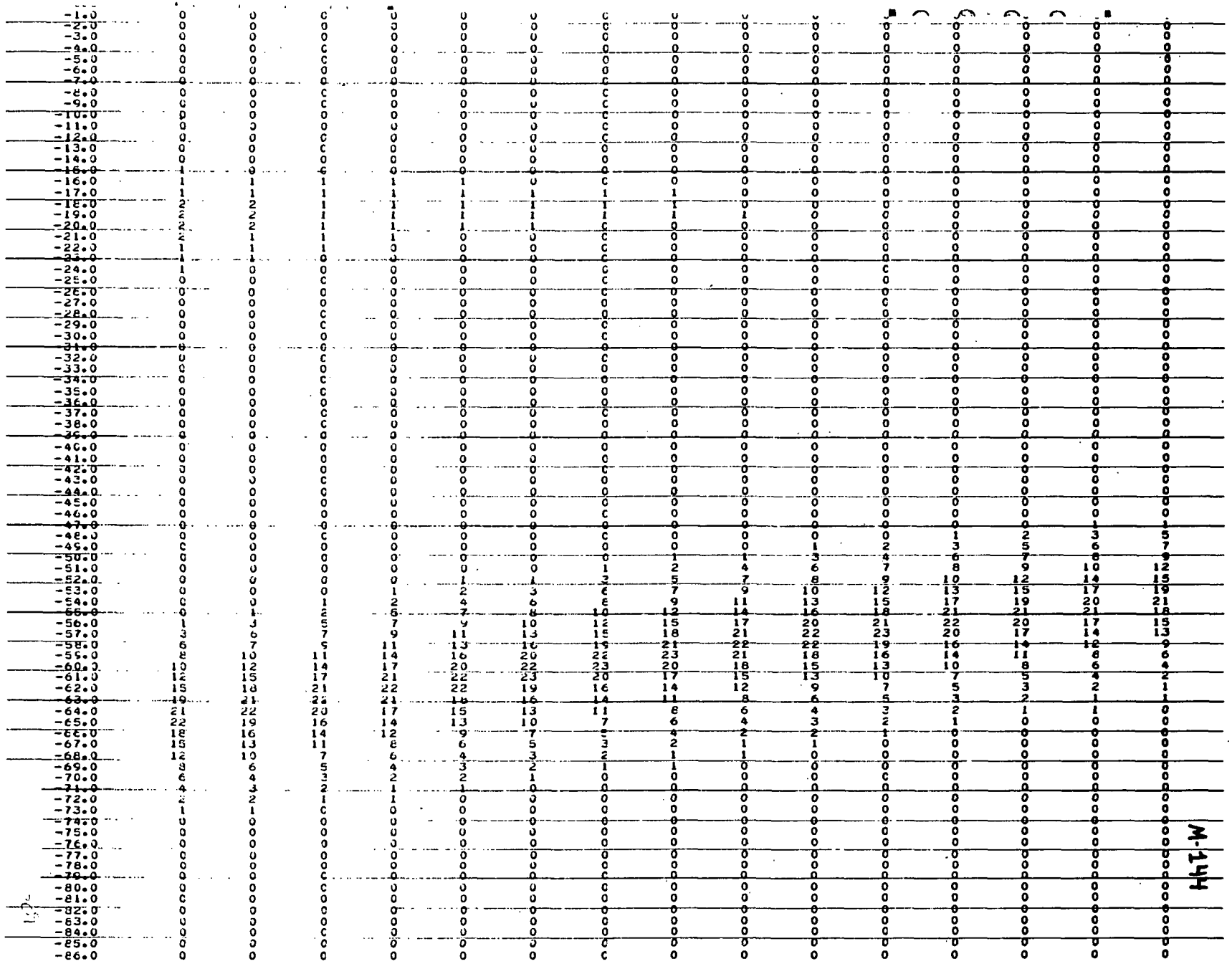
	-45.0	-42.0	-39.0	-36.0	-33.0	-30.0	-27.0	-24.0	-21.0	-18.0	-15.0	-12.0	-9.0	-6.0	-3.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
63.0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2
62.0	0	0	0	0	0	0	0	0	0	1	1	2	3	3	4
61.0	0	0	0	0	0	0	0	1	1	2	3	4	5	6	8
60.0	0	0	0	0	0	0	1	2	3	4	5	6	8	9	10
59.0	0	0	0	0	1	1	2	3	5	6	8	9	10	12	14
58.0	0	0	1	1	2	3	4	6	8	9	10	12	13	12	12
57.0	0	1	2	3	4	5	8	9	10	12	13	12	11	9	8
56.0	1	2	3	5	7	8	10	12	13	12	10	9	7	6	5
55.0	3	4	6	8	9	11	13	12	11	9	7	6	5	4	3
54.0	4	7	8	10	12	12	11	9	7	6	4	3	3	1	0
53.0	7	9	11	13	12	9	8	6	5	3	3	1	0	0	0
52.0	9	12	12	11	8	6	5	4	3	1	0	0	0	0	0
51.0	12	11	9	7	5	4	3	1	0	0	0	0	0	0	0
50.0	11	8	6	5	3	2	0	0	0	0	0	0	0	0	0
49.0	7	5	4	3	1	0	0	0	0	0	0	0	0	0	0
48.0	5	3	2	0	0	0	0	0	0	0	0	0	0	0	0
47.0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ORIGINAL PAGE IS
OF POOR QUALITY

1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-15.0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
-16.0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1
-17.0	0	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2
-18.0	0	0	0	0	1	1	1	1	2	2	2	2	2	2	2	2	2
-19.0	0	0	0	1	1	1	1	2	2	2	3	3	2	2	2	2	2
-20.0	0	0	1	1	1	1	2	2	3	3	3	3	3	3	2	2	2
-21.0	0	1	1	1	2	2	3	3	4	4	4	3	3	3	2	2	2
-22.0	1	1	1	2	2	3	3	4	4	4	4	4	3	3	2	2	2
-23.0	1	1	2	2	3	3	4	5	4	4	4	4	3	2	2	1	1
-24.0	1	2	2	3	3	4	5	5	5	5	4	3	3	2	1	1	1
-25.0	2	2	3	4	4	5	5	5	5	4	3	3	2	1	1	1	1
-26.0	2	3	4	4	5	5	5	5	4	3	2	1	1	1	1	0	0
-27.0	3	4	4	5	6	5	5	4	4	2	2	1	1	1	0	0	0
-28.0	4	4	5	6	6	6	5	4	3	2	1	1	0	0	0	0	0
-29.0	4	5	6	6	6	5	4	3	2	1	1	1	0	0	0	0	0
-30.0	5	6	6	6	6	4	3	2	1	1	1	0	0	0	0	0	0
-31.0	6	6	6	6	5	4	3	2	1	1	0	0	0	0	0	0	0
-32.0	6	6	6	5	4	3	2	1	1	1	0	0	0	0	0	0	0
-33.0	6	6	5	4	3	2	1	1	1	0	0	0	0	0	0	0	0
-34.0	6	5	4	3	2	2	1	1	0	0	0	0	0	0	0	0	0
-35.0	5	4	4	2	2	1	1	0	0	0	0	0	0	0	0	0	0
-36.0	4	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0
-37.0	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
-38.0	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
-39.0	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
-40.0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-41.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
-59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	4
-60.0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	6	8	8
-61.0	0	0	0	0	0	0	0	0	0	0	1	2	4	6	8	10	10
-62.0	0	0	0	0	0	0	0	0	0	1	3	5	7	8	10	12	12
-63.0	0	0	0	0	0	0	0	1	3	3	6	7	9	11	13	15	15
-64.0	0	0	0	0	1	1	3	5	6	7	9	11	13	16	19	19	19
-65.0	0	0	1	1	2	4	6	7	8	10	12	14	17	20	21	21	21
-66.0	1	2	3	4	5	6	8	9	11	13	15	18	20	21	20	20	20
-67.0	4	5	5	6	7	9	10	12	14	16	19	20	21	19	17	17	17
-68.0	6	7	8	9	10	12	13	15	18	19	20	19	17	15	14	14	14
-69.0	8	9	10	12	13	15	18	19	20	19	17	16	14	12	11	11	11
-70.0	12	13	14	16	17	18	19	19	17	15	14	13	12	9	8	7	7
-71.0	16	17	17	18	19	17	16	15	13	12	12	9	8	6	5	5	5
-72.0	18	17	16	15	14	13	13	12	11	9	7	6	5	4	3	3	3
-73.0	14	13	12	12	11	11	10	8	7	6	5	4	3	2	2	2	2
-74.0	11	10	10	9	8	7	6	5	4	4	3	2	2	1	1	1	1
-75.0	7	6	6	5	5	4	4	3	2	2	2	1	1	0	0	0	0
-76.0	4	4	3	3	3	2	2	2	1	1	1	0	0	0	0	0	0
-77.0	2	2	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0
-78.0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
-79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-82.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-83.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-84.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-85.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ALTITUDE= 900.0 ENERGY= 2.000 AVFLUX/SEC= 3.481E 03 ELECTRONS

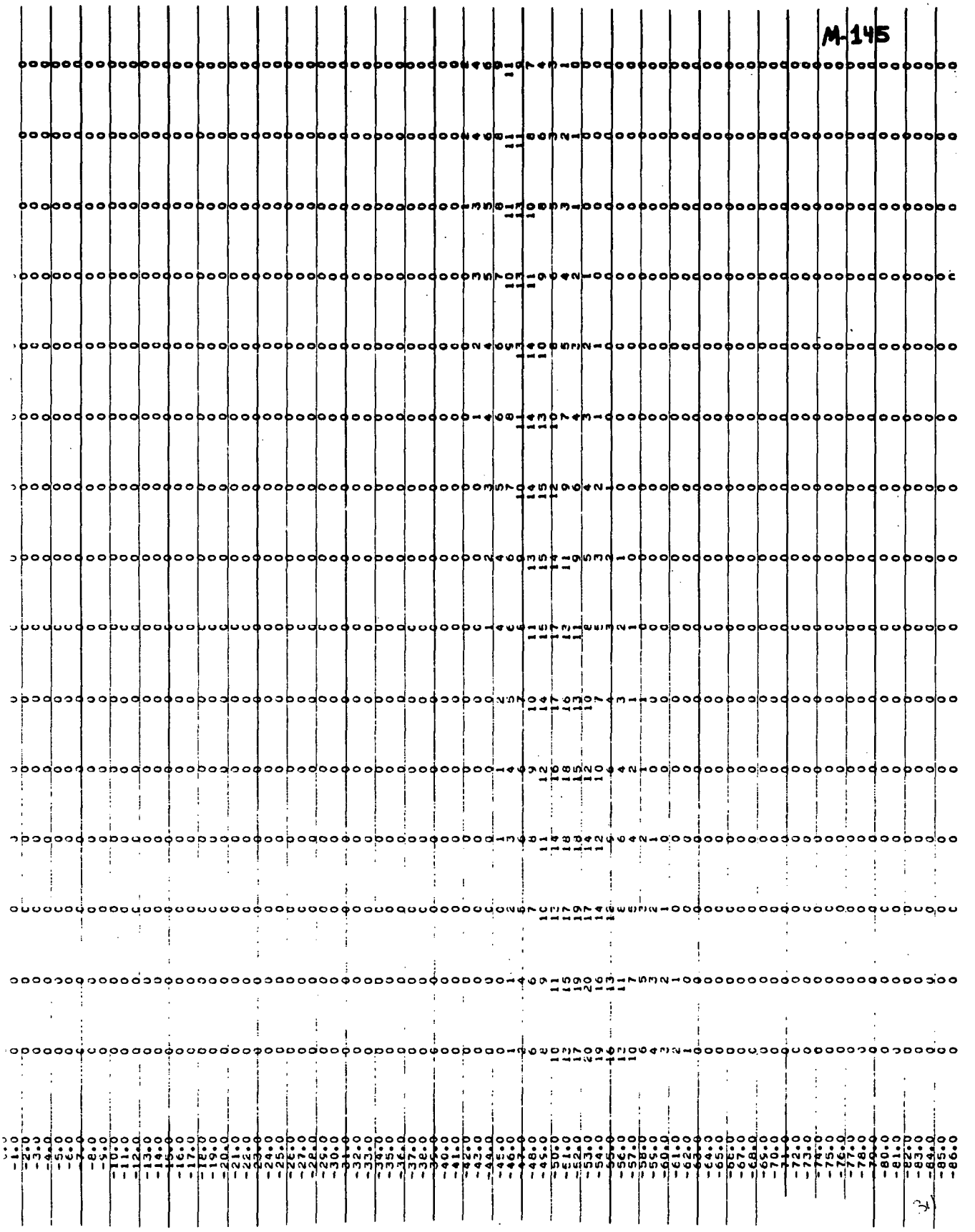
	0.0	3.0	6.0	9.0	12.0	15.0	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
67.0	0	0	0	0	0	0	0	0	1	1	1	1	1	2	2
66.0	0	0	0	0	1	1	1	1	2	2	2	3	3	3	3
65.0	0	1	1	1	2	2	3	3	3	4	4	5	5	6	6
64.0	1	2	2	3	3	4	5	5	6	7	7	7	8	8	8
63.0	3	4	4	5	6	7	8	8	8	9	9	10	10	10	11
62.0	5	7	8	8	9	9	10	11	11	12	12	12	11	11	11
61.0	8	9	10	11	12	13	13	12	12	11	10	10	9	8	8
60.0	11	12	13	13	12	12	10	9	8	8	7	6	6	5	5
59.0	13	12	11	10	9	8	7	6	6	5	5	4	4	3	3
58.0	10	8	7	6	6	5	4	4	3	3	3	3	2	1	1
57.0	6	6	5	4	3	3	3	2	1	1	0	0	0	0	0
56.0	4	3	3	2	1	1	0	0	0	0	0	0	0	0	0
55.0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



M-144

ALTITUDE= 900.0 ENERGY= 2.000 AVFLUX/SEC= 3.481E 03 ELECTRONS

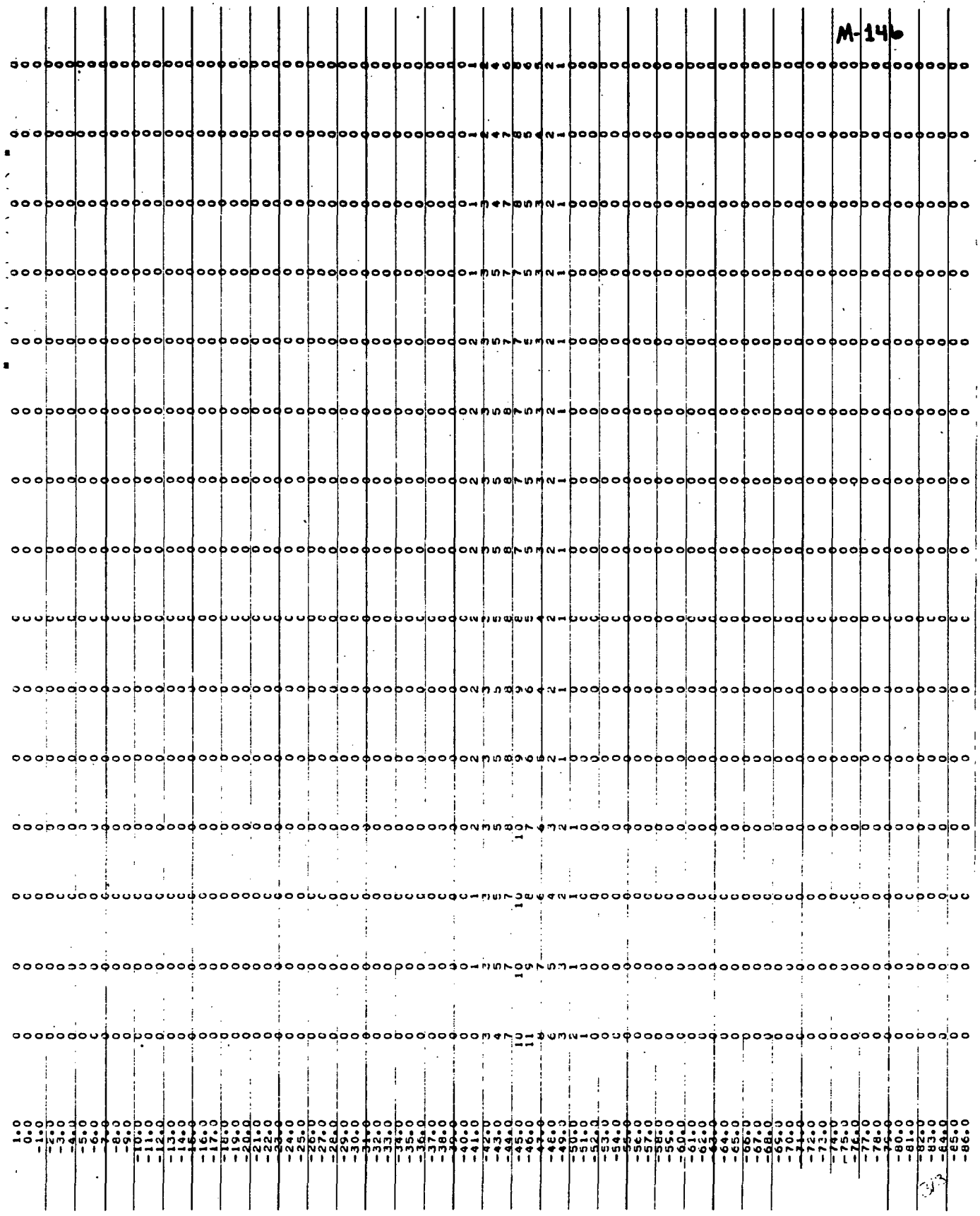
	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0	75.0	78.0	81.0	84.0	87.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
68.0	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2
67.0	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4
66.0	4	4	4	4	5	5	5	5	6	6	6	6	6	6	6
65.0	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8
64.0	8	8	9	9	9	9	9	10	10	10	10	10	10	9	9
63.0	11	12	11	11	10	10	10	10	9	9	9	8	8	7	7
62.0	10	10	9	9	8	8	7	7	6	6	6	5	5	5	5
61.0	7	7	6	6	5	5	5	4	4	4	4	4	3	3	3
60.0	5	4	4	4	3	3	3	3	3	2	2	2	2	2	2
59.0	3	3	2	2	2	2	1	1	1	1	0	0	0	0	0
58.0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 2.000 AVFLUX/SEC= 3.481E 03 ELECTRONS

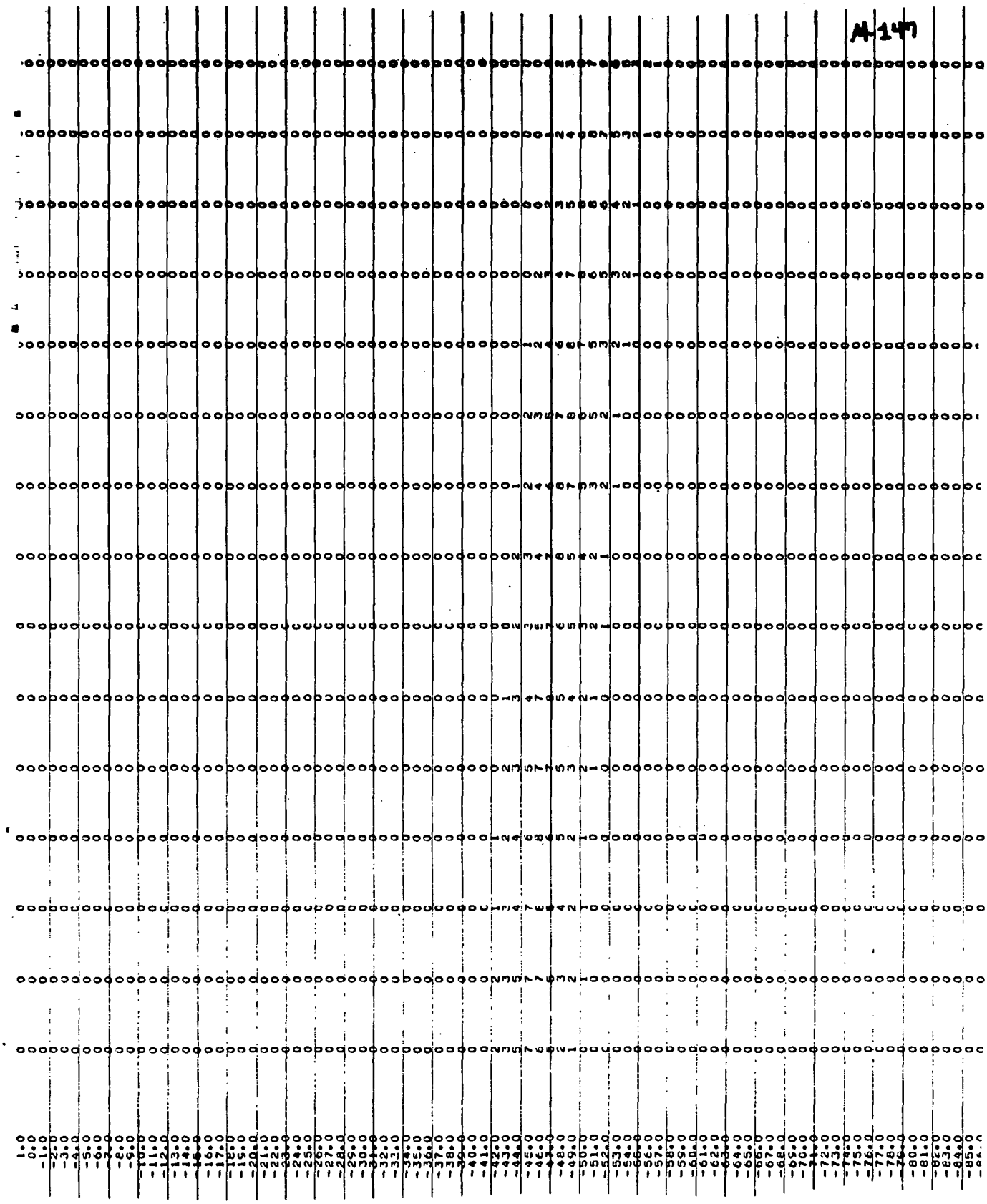
	90.0	93.0	96.0	99.0	102.0	105.0	108.0	111.0	114.0	117.0	120.0	123.0	126.0	129.0	132.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
69.0	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
68.0	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3
67.0	4	4	4	5	5	5	5	5	6	6	6	6	6	6	6
66.0	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7
65.0	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9
64.0	9	9	9	8	8	8	8	8	8	8	7	7	7	7	7
63.0	7	6	6	6	6	6	5	5	5	5	5	5	5	5	5
62.0	4	4	4	4	4	4	3	3	3	3	3	3	3	3	3
61.0	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2
60.0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 2.000 AVFLUX/SEC= 3.481E 03 ELECTRONS

	135.0	138.0	141.0	144.0	147.0	150.0	153.0	156.0	159.0	162.0	165.0	168.0	171.0	174.0	177.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
69.0	2	2	2	2	2	2	2	1	1	1	1	1	1	0	0
68.0	3	3	3	3	3	3	3	3	3	3	2	2	2	1	1
67.0	6	6	6	6	6	6	6	6	5	5	4	4	3	3	3
66.0	8	8	8	8	8	8	7	7	7	7	7	6	5	4	4
65.0	9	10	10	10	10	10	11	10	10	10	9	9	8	7	7
64.0	7	7	8	8	8	8	9	9	10	10	10	11	11	10	10
63.0	5	5	5	5	5	5	6	6	7	7	8	9	10	10	11
62.0	3	3	3	3	3	3	4	4	4	5	5	6	6	7	8
61.0	1	1	2	2	2	2	2	2	3	3	3	4	4	5	5
60.0	0	0	0	0	0	0	0	0	0	1	1	2	2	3	3
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE: 900 KM

ELECTRONS: E>3.0 MEV

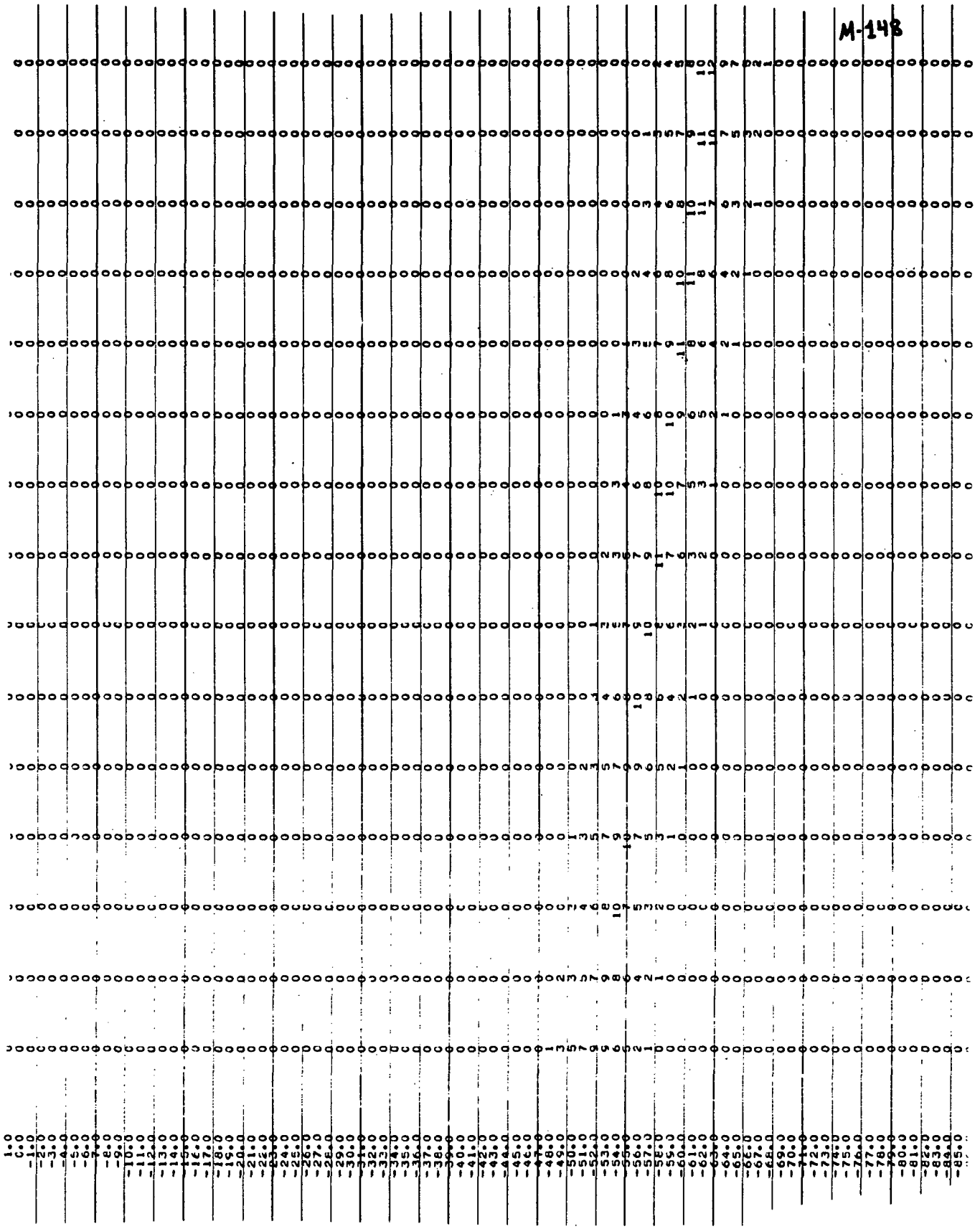
INNER ZONE MODEL: AE6 (SOLAR MAX)

OUTER ZONE MODEL: AE17-HI

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 3.000. AVFLUX/SEC= 1.176E 03 ELECTRONS

	-180.0	-177.0	-174.0	-171.0	-168.0	-165.0	-162.0	-159.0	-156.0	-153.0	-150.0	-147.0	-144.0	-141.0	-138.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
66.0	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0
65.0	7	6	4	3	2	2	1	0	0	0	0	0	0	0	0
64.0	9	8	7	7	5	3	2	2	1	0	0	0	0	0	0
63.0	13	12	10	9	8	7	5	3	2	1	1	0	0	0	0
62.0	10	11	12	13	11	9	8	7	5	3	2	1	0	0	0
61.0	8	9	10	11	12	13	11	9	8	7	4	3	2	1	0
60.0	5	6	7	8	9	10	12	13	11	9	7	6	4	2	1
59.0	3	4	4	5	6	8	9	10	12	13	10	8	7	5	3
58.0	0	1	2	3	4	5	6	8	9	11	12	12	9	7	6
57.0	0	0	0	1	2	3	4	5	7	8	10	11	12	10	8
56.0	0	0	0	0	0	1	2	3	4	6	7	9	10	11	12
55.0	0	0	0	0	0	0	0	1	2	4	5	6	8	9	11
54.0	0	0	0	0	0	0	0	0	0	1	3	4	5	7	8
53.0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	6
52.0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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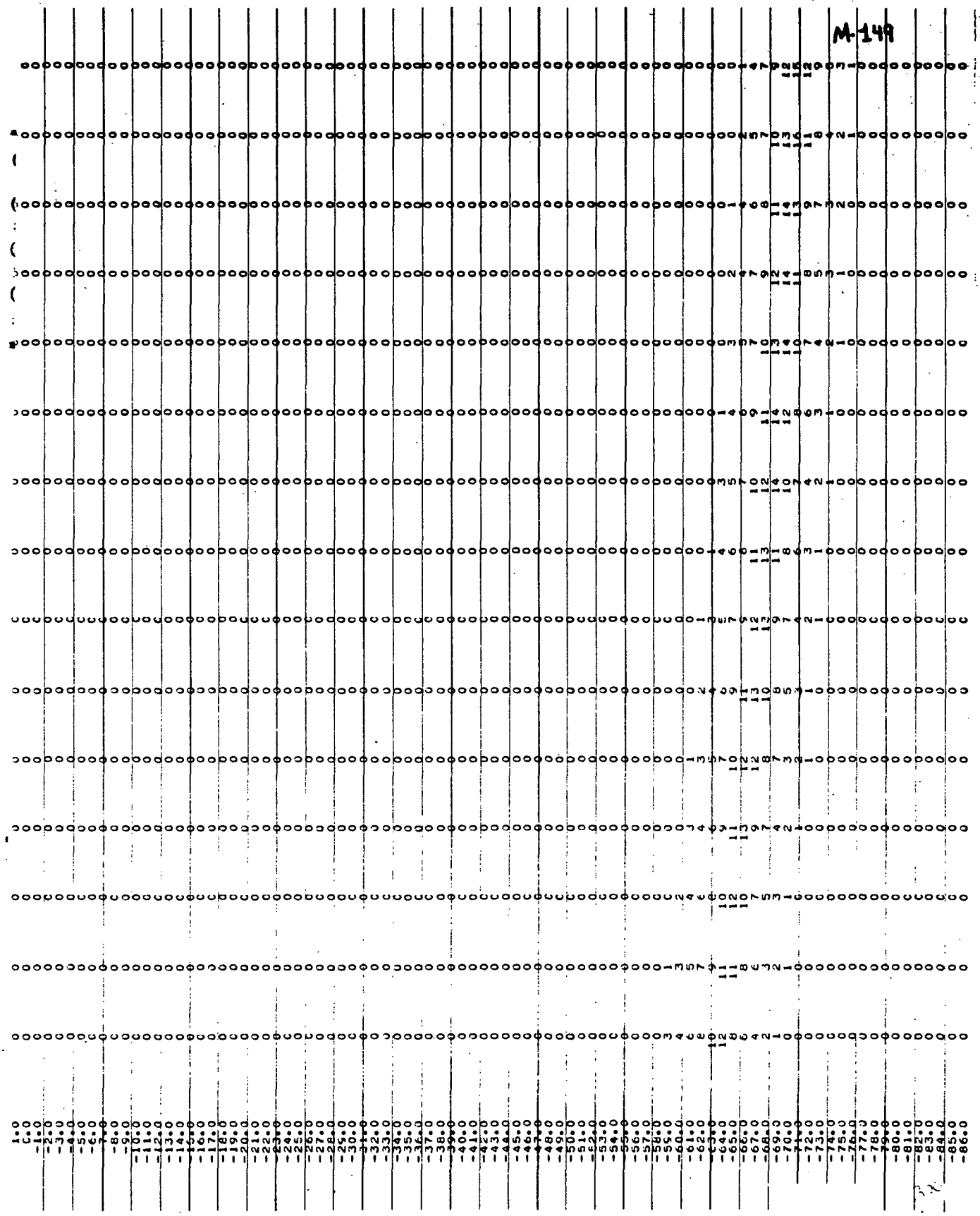


ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 3.000 AVFLUX/SEC= 1.176E 03 ELECTRONS

	-135.0	-132.0	-129.0	-126.0	-123.0	-120.0	-117.0	-114.0	-111.0	-108.0	-105.0	-102.0	-99.0	-96.0	-93.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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59.0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
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57.0	6	4	3	2	1	0	0	0	0	0	0	0	0	0	0
56.0	9	7	6	3	2	1	0	0	0	0	0	0	0	0	0
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50.0	1	2	4	5	6	8	9	11	11	8	7	6	5	3	3
49.0	0	0	1	3	4	6	7	8	10	11	10	8	7	4	4
48.0	0	0	0	1	3	4	5	6	8	9	10	11	10	8	7
47.0	0	0	0	0	0	1	3	4	5	6	8	9	10	11	11
46.0	0	0	0	0	0	0	1	2	3	4	5	7	8	9	10
45.0	0	0	0	0	0	0	0	0	1	3	4	5	5	6	7
44.0	0	0	0	0	0	0	0	0	0	0	1	3	4	4	5
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42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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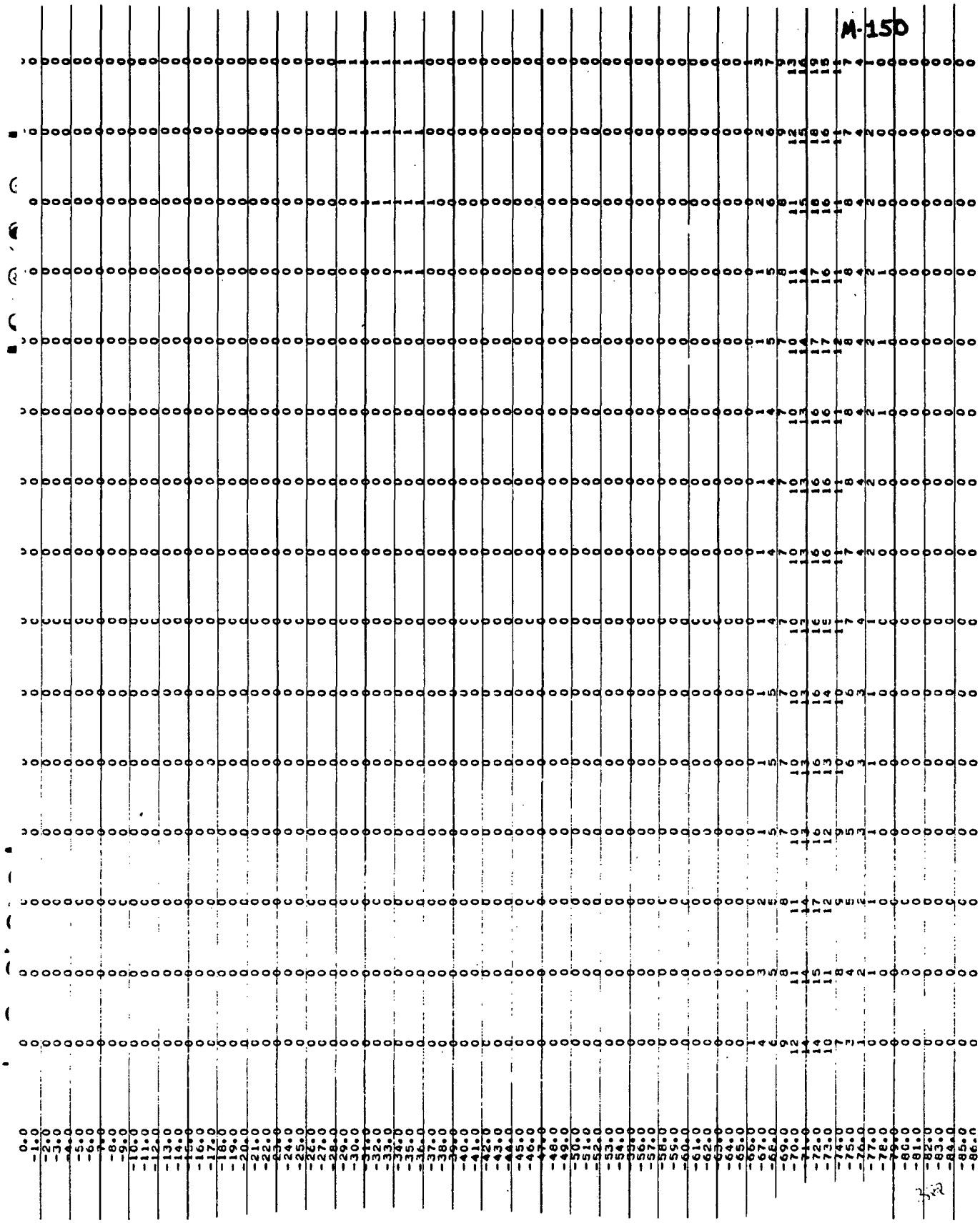
M-149



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 3.000 AVFLUX/SEC= 1.176E 03 ELECTRONS

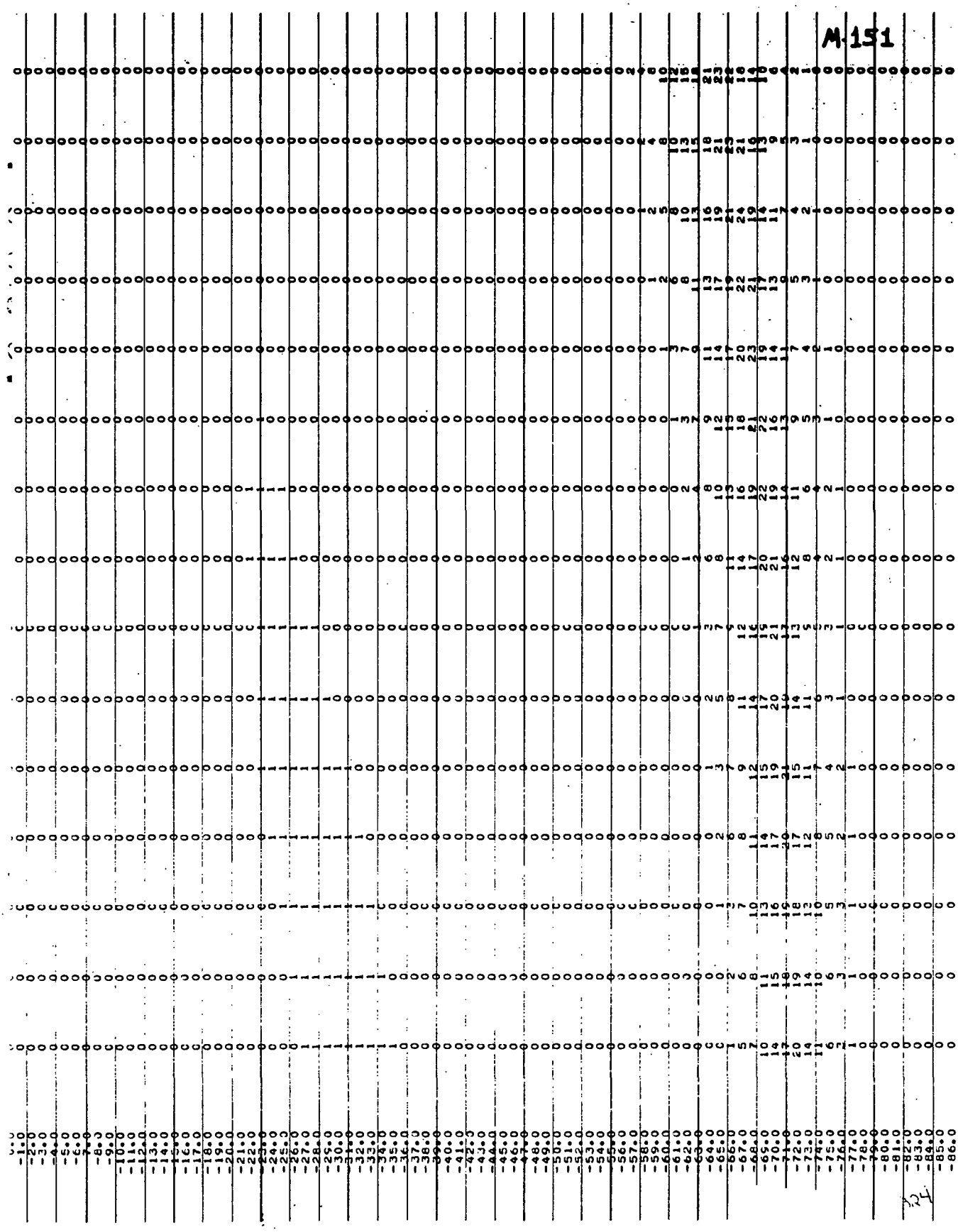
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81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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50.0	2	2	2	2	2	2	2	3	3	5	7	8	10	12	13
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48.0	7	6	6	6	6	6	7	7	9	10	13	12	11	9	8
47.0	10	9	8	8	8	9	10	11	13	12	11	10	8	7	5
46.0	10	11	11	12	12	12	11	11	11	10	9	7	6	4	3
45.0	8	9	9	10	10	10	9	9	8	7	6	5	4	2	1
44.0	6	7	7	7	8	7	7	6	6	5	4	3	1	0	0
43.0	4	4	5	5	5	5	5	4	4	3	2	1	0	0	0
42.0	2	3	3	3	3	3	3	3	2	1	0	0	0	0	0
41.0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 3.000 AVFLUX/SEC= 1.176E 03 ELECTRONS

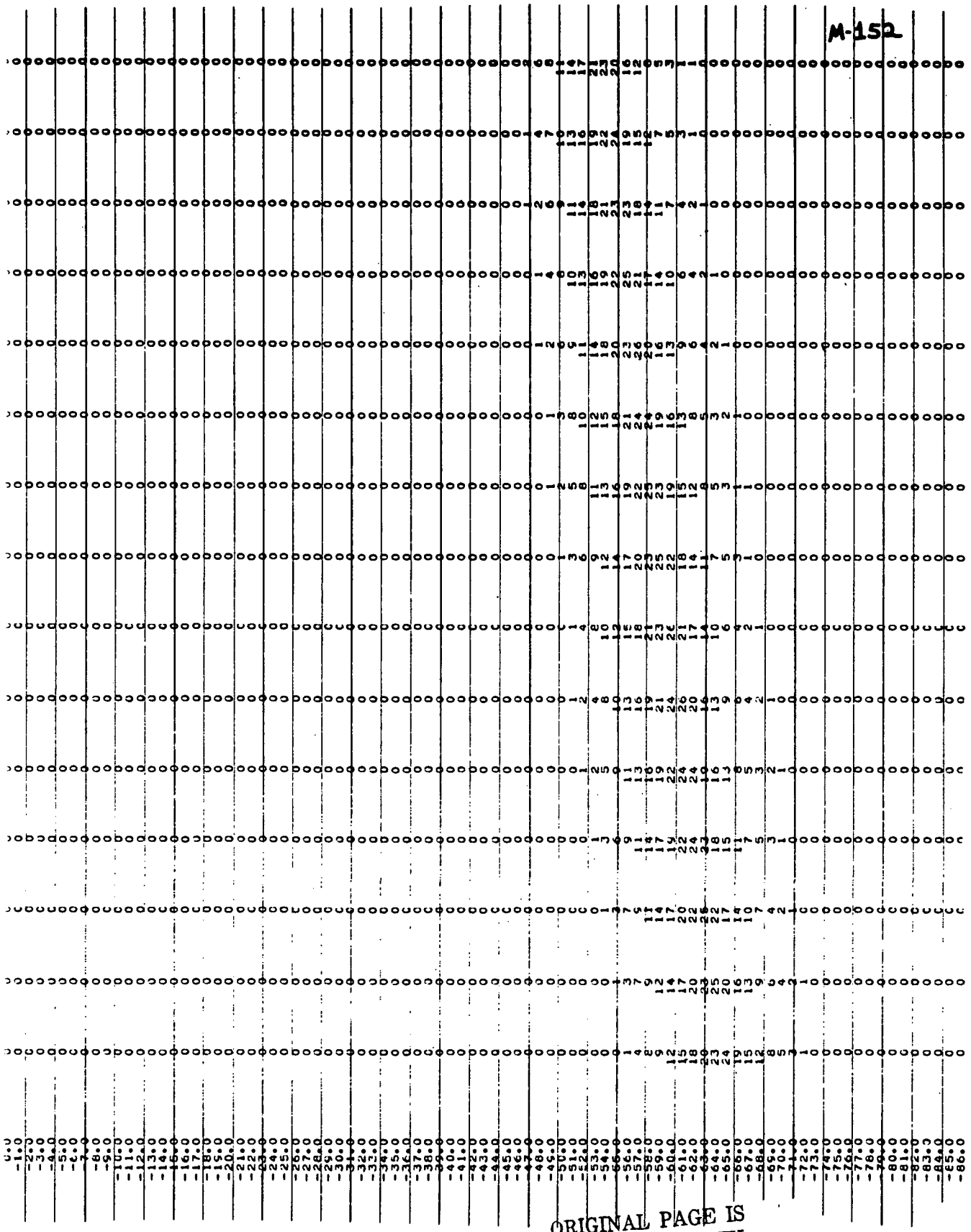
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81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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49.0	9	7	6	4	1	0	0	0	0	0	0	0	0	0	0
48.0	6	4	3	1	0	0	0	0	0	0	0	0	0	0	0
47.0	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 3.000 AVFLUX/SEC= 1.176E 03 ELECTRONS

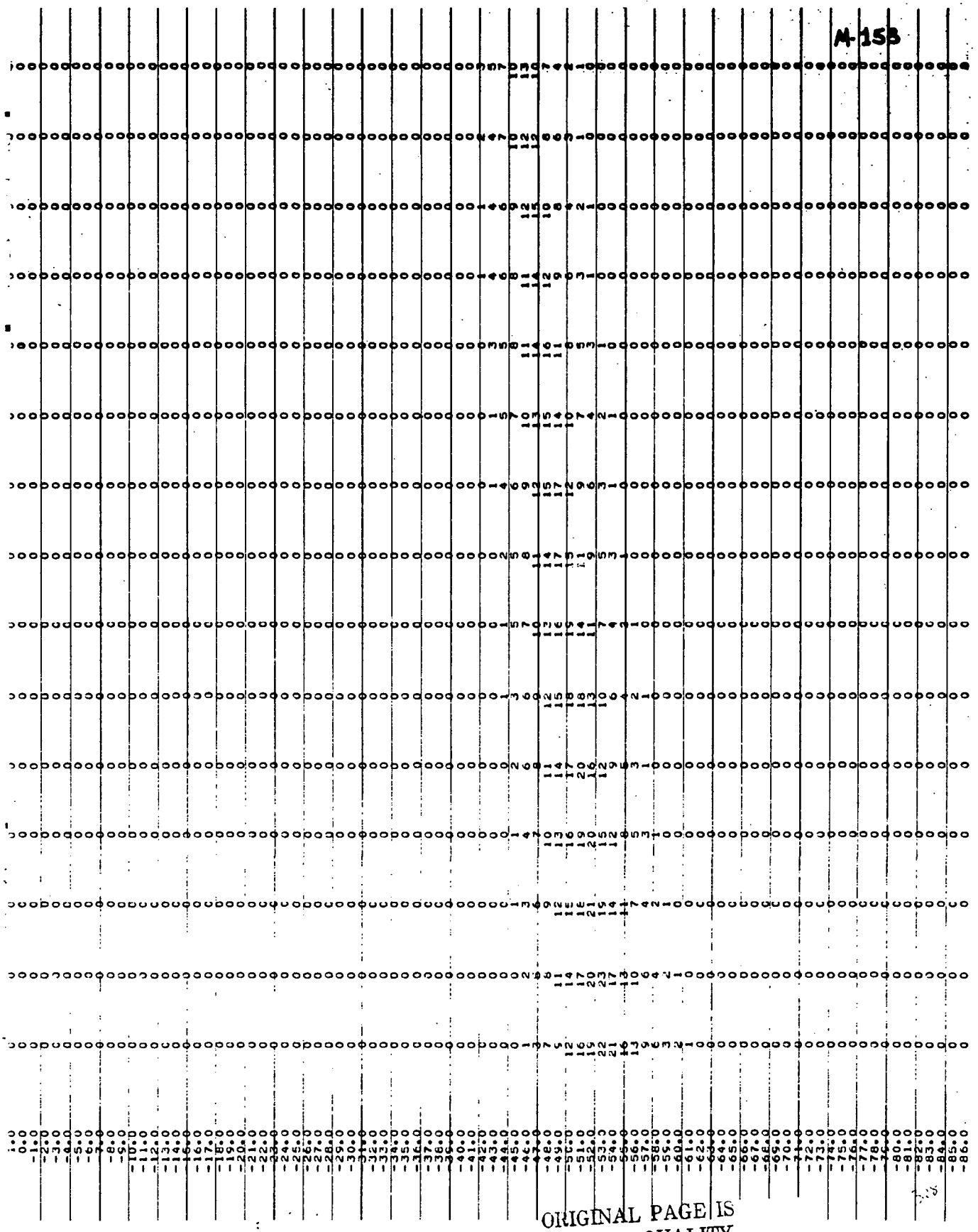
	0.0	3.0	6.0	9.0	12.0	15.0	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
66.0	0	0	0	0	0	0	1	1	1	1	2	2	2	3	3
65.0	0	0	0	1	1	1	2	2	3	3	4	4	6	5	6
64.0	1	1	2	2	3	3	4	5	6	7	7	7	8	8	8
63.0	2	3	4	5	6	7	8	8	9	9	10	10	11	12	12
62.0	5	6	8	8	9	10	11	12	13	14	14	13	13	12	12
61.0	8	9	10	12	13	14	14	13	13	12	11	11	10	9	9
60.0	12	14	15	14	13	12	11	10	10	9	9	8	7	7	6
59.0	14	13	12	11	10	9	8	7	7	6	6	5	5	4	4
58.0	11	10	9	8	7	6	6	5	4	4	4	3	3	2	2
57.0	8	7	6	5	4	4	3	2	2	1	1	0	0	0	0
56.0	5	4	4	3	2	1	0	0	0	0	0	0	0	0	0
55.0	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 3.000 AVFLUX/SEC= 1.176E 03 ELECTRONS

	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0	75.0	78.0	81.0	84.0	87.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
68.0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2
67.0	1	2	2	2	2	2	2	3	3	3	3	3	3	3	3
66.0	3	3	4	4	4	5	5	5	6	6	6	6	6	6	6
65.0	6	7	7	7	7	7	7	7	7	7	8	8	8	8	8
64.0	9	9	9	10	10	10	10	11	11	11	11	11	11	10	10
63.0	13	13	12	12	11	11	11	10	10	10	9	9	9	8	8
62.0	11	11	10	10	9	9	8	8	8	7	7	7	8	8	8
61.0	9	8	8	7	7	6	6	5	5	5	5	4	4	4	4
60.0	6	5	5	5	4	4	4	4	3	3	3	3	3	2	2
59.0	4	3	3	3	3	2	2	1	1	1	1	0	0	0	0
58.0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 500.0 ENERGY= 3.000 AVFLUX/SEC= 1.176E 03 ELECTRONS

	90.0	93.0	96.0	99.0	102.0	105.0	108.0	111.0	114.0	117.0	120.0	123.0	126.0	129.0	132.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
68.0	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3
67.0	4	4	4	4	5	5	5	5	5	6	6	6	6	6	6
66.0	6	6	6	6	6	6	7	7	7	7	7	7	8	8	8
65.0	8	8	8	9	9	10	10	10	11	10	10	10	10	10	10
64.0	10	10	9	9	9	9	9	9	8	8	8	8	8	8	8
63.0	8	7	7	7	7	7	7	6	6	6	6	6	6	6	6
62.0	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4
61.0	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2
60.0	2	2	1	1	1	1	1	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

M-154

ALTITUDE= 900.0 ENERGY= 3.000 AVFLUX/SEC= 1.176E 03 ELECTRONS

	135.0	138.0	141.0	144.0	147.0	150.0	153.0	156.0	159.0	162.0	165.0	168.0	171.0	174.0	177.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	2	1	1	1	1	1	1	1	1	1	0	0	0	0	0
68.0	3	3	3	3	3	3	3	2	2	2	2	1	1	1	0
67.0	6	6	6	6	6	6	6	5	5	4	4	3	3	2	2
66.0	8	8	8	8	8	8	8	8	7	7	7	7	6	5	4
65.0	10	11	11	11	11	12	12	13	11	11	10	9	8	8	7
64.0	8	8	8	9	9	9	10	10	10	11	11	12	13	12	10
63.0	6	6	6	6	6	7	7	8	8	8	9	10	10	11	12
62.0	4	4	4	4	4	4	5	5	5	6	6	7	8	8	9
61.0	2	2	2	2	2	3	3	3	3	4	4	4	5	6	7
60.0	0	0	0	0	0	0	0	0	1	1	2	2	3	4	4
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

M-155

ALTITUDE: 900 KM

ELECTRONS: E >4.0 MEV

INNER ZONE MODEL: AE6 (SOLAR MAX)

OUTER ZONE MODEL: AE17-HI

ORIGINAL PAGE IS
OF POOR QUALITY

PRINTED IN U.S.A.

ALTITUDE= 500.0 ENERGY= 4.000 AVFLUX/SEC= 5.035E 02 ELECTRONS

	-180.0	-177.0	-174.0	-171.0	-168.0	-165.0	-162.0	-159.0	-156.0	-153.0	-150.0	-147.0	-144.0	-141.0	-138.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
65.0	7	6	4	3	2	1	1	0	0	0	0	0	0	0	0
64.0	11	9	8	7	5	3	2	1	1	0	0	0	0	0	0
63.0	16	15	13	10	8	7	5	3	2	1	1	0	0	0	0
62.0	10	12	14	17	14	11	9	7	5	3	2	1	0	0	0
61.0	6	8	9	11	13	16	14	11	8	7	4	3	2	1	0
60.0	4	4	5	7	8	10	13	16	14	10	8	6	3	2	1
59.0	2	3	3	4	5	6	8	11	13	17	13	9	7	5	3
58.0	0	1	1	2	3	4	5	7	9	11	14	15	11	8	6
57.0	0	0	0	0	1	2	3	4	6	7	9	12	16	12	9
56.0	0	0	0	0	0	0	1	2	3	4	6	8	10	13	15
55.0	0	0	0	0	0	0	0	0	1	2	3	5	6	9	12
54.0	0	0	0	0	0	0	0	0	0	0	2	3	4	5	7
53.0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	4
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-48.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-49.0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-50.0	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-51.0	6	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
-52.0	9	7	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0
-53.0	12	11	6	4	3	2	1	0	0	0	0	0	0	0	0	0	0
-54.0	7	10	9	7	5	3	2	2	0	0	0	0	0	0	0	0	0
-55.0	5	8	13	11	8	6	4	3	2	1	0	0	0	0	0	0	0
-56.0	2	4	6	8	12	12	9	6	5	3	2	1	0	0	0	0	0
-57.0	1	2	3	5	7	10	13	10	7	5	4	3	2	1	0	0	0
-58.0	0	0	1	2	5	6	9	14	11	8	6	4	3	2	1	0	0
-59.0	0	0	0	1	2	4	6	8	12	12	9	7	5	4	2	1	0
-60.0	0	0	0	0	1	2	3	6	8	11	14	10	8	6	4	2	1
-61.0	0	0	0	0	0	1	2	3	6	7	10	15	12	9	7	5	3
-62.0	0	0	0	0	0	0	1	2	3	5	7	9	13	13	10	8	5
-63.0	0	0	0	0	0	0	0	1	1	3	4	6	8	12	15	11	8
-64.0	0	0	0	0	0	0	0	0	1	1	2	3	6	8	11	14	11
-65.0	0	0	0	0	0	0	0	0	0	0	1	2	3	5	8	11	14
-66.0	0	0	0	0	0	0	0	0	0	0	1	1	2	3	5	8	11
-67.0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	4	6	8
-68.0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	4	6
-69.0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	3	4
-70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	3
-71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
-72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
-73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
-74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-82.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-83.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-84.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-85.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-86.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

M-15b

ALTITUDE= 500.0 ENERGY= 4.000 AVFLUX/SEC= 5.035E 02 ELECTRONS

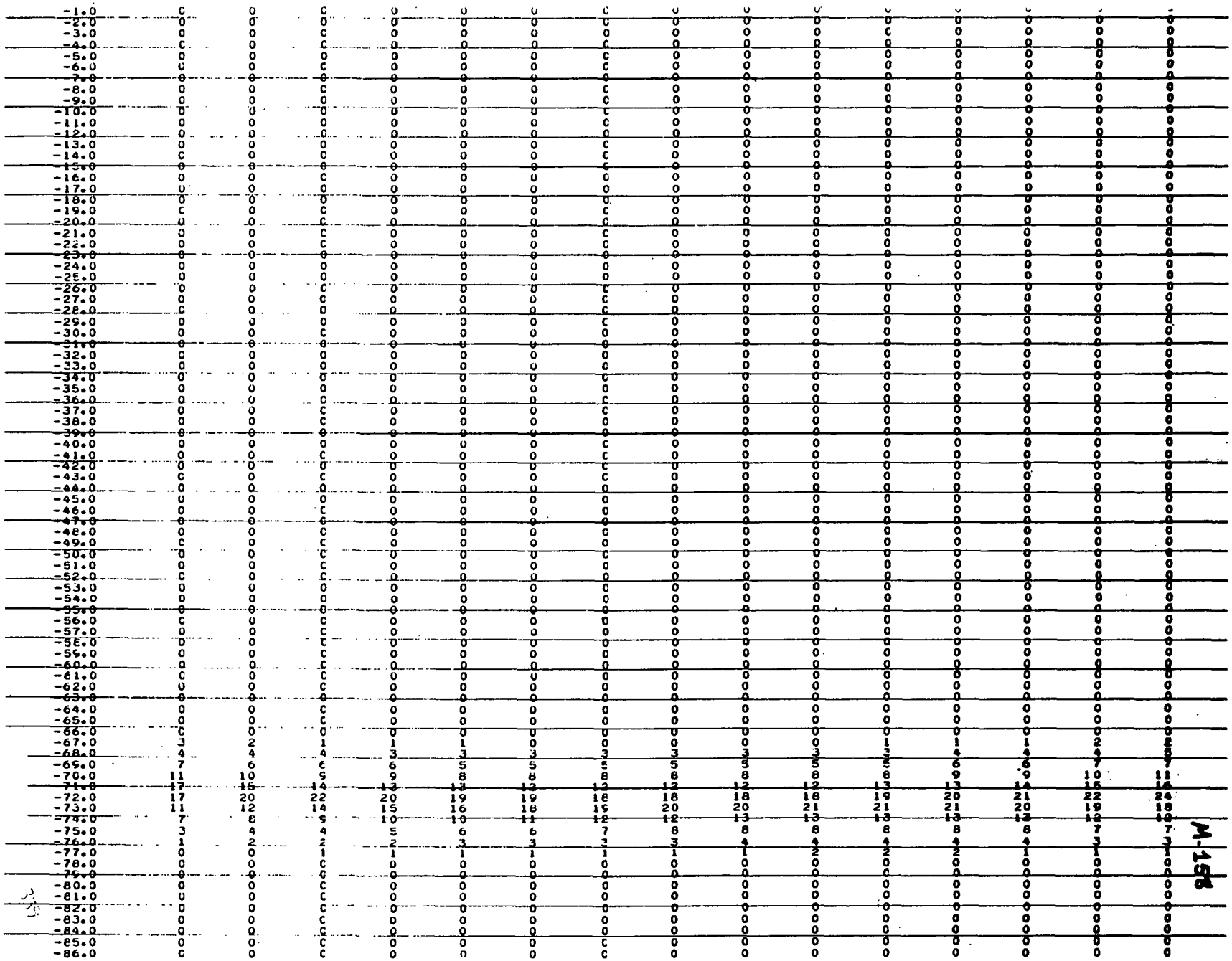
	-135.0	-132.0	-129.0	-126.0	-123.0	-120.0	-117.0	-114.0	-111.0	-108.0	-105.0	-102.0	-99.0	-96.0	-93.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59.0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0
57.0	7	4	2	1	0	0	0	0	0	0	0	0	0	0	0
56.0	10	8	6	3	2	1	0	0	0	0	0	0	0	0	0
55.0	15	12	8	7	4	2	1	0	0	0	0	0	0	0	0
54.0	10	13	14	10	7	5	3	2	1	0	0	0	0	0	0
53.0	6	8	11	15	12	8	6	4	2	1	1	0	0	0	0
52.0	4	5	7	10	13	14	9	7	5	3	2	1	1	0	0
51.0	2	3	4	6	8	11	15	11	8	6	5	3	2	1	1
50.0	0	2	3	4	5	7	10	13	14	10	7	6	5	3	2
49.0	0	0	1	2	3	4	6	8	11	14	13	9	7	6	4
48.0	0	0	0	0	2	3	4	5	7	9	11	14	13	10	8
47.0	0	0	0	0	0	1	2	3	4	5	7	9	11	13	14
46.0	0	0	0	0	0	0	0	1	2	3	4	6	7	9	10
45.0	0	0	0	0	0	0	0	0	1	2	3	3	4	5	7
44.0	0	0	0	0	0	0	0	0	0	1	2	3	3	3	4
43.0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

M-157

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 4.000 AVFLUX/SEC= 5.035E 02 ELECTRONS

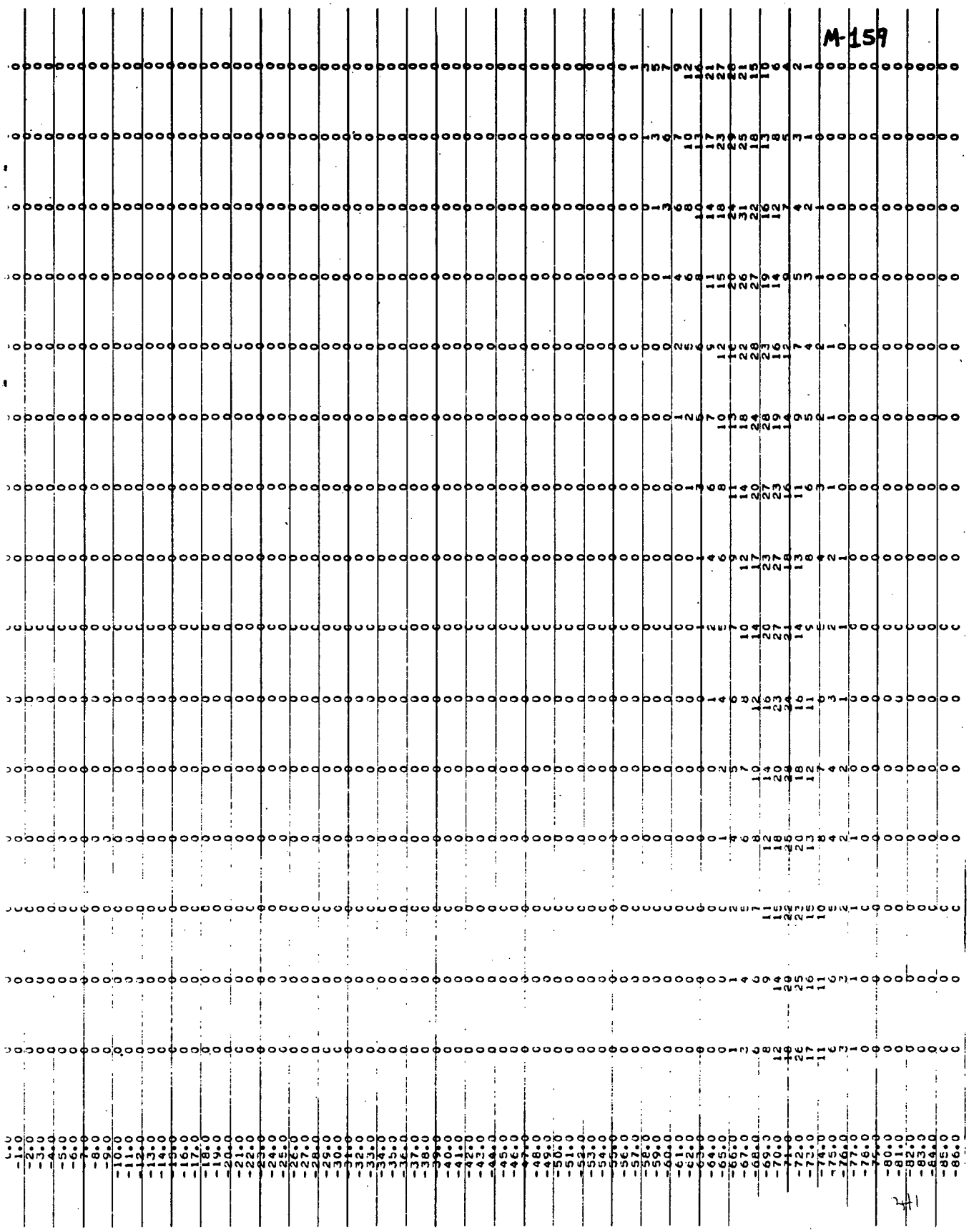
	-90.0	-87.0	-84.0	-81.0	-78.0	-75.0	-72.0	-69.0	-66.0	-63.0	-60.0	-57.0	-54.0	-51.0	-48.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
53.0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	5
52.0	0	0	0	0	0	0	0	0	0	0	1	2	4	6	9
51.0	1	0	0	0	0	0	1	1	2	2	3	5	7	10	14
50.0	2	2	2	1	2	2	2	2	3	5	7	8	12	16	15
49.0	4	4	3	3	3	4	4	6	7	8	10	14	17	13	10
48.0	7	7	6	6	6	7	7	8	10	13	17	14	11	8	6
47.0	12	10	10	9	10	10	12	14	16	14	12	9	7	5	4
46.0	12	13	14	15	15	15	14	13	11	9	8	6	4	3	2
45.0	8	9	9	10	10	10	9	8	7	6	5	4	3	1	0
44.0	5	5	6	6	6	6	6	5	5	4	3	2	1	0	0
43.0	3	3	4	4	4	4	4	3	3	2	1	0	0	0	0
42.0	1	2	2	2	2	2	2	2	1	0	0	0	0	0	0
41.0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



M-154

ALTITUDE= 900.0 ENERGY= 4.000 AVFLUX/SEC= 5.035E 02 ELECTRONS

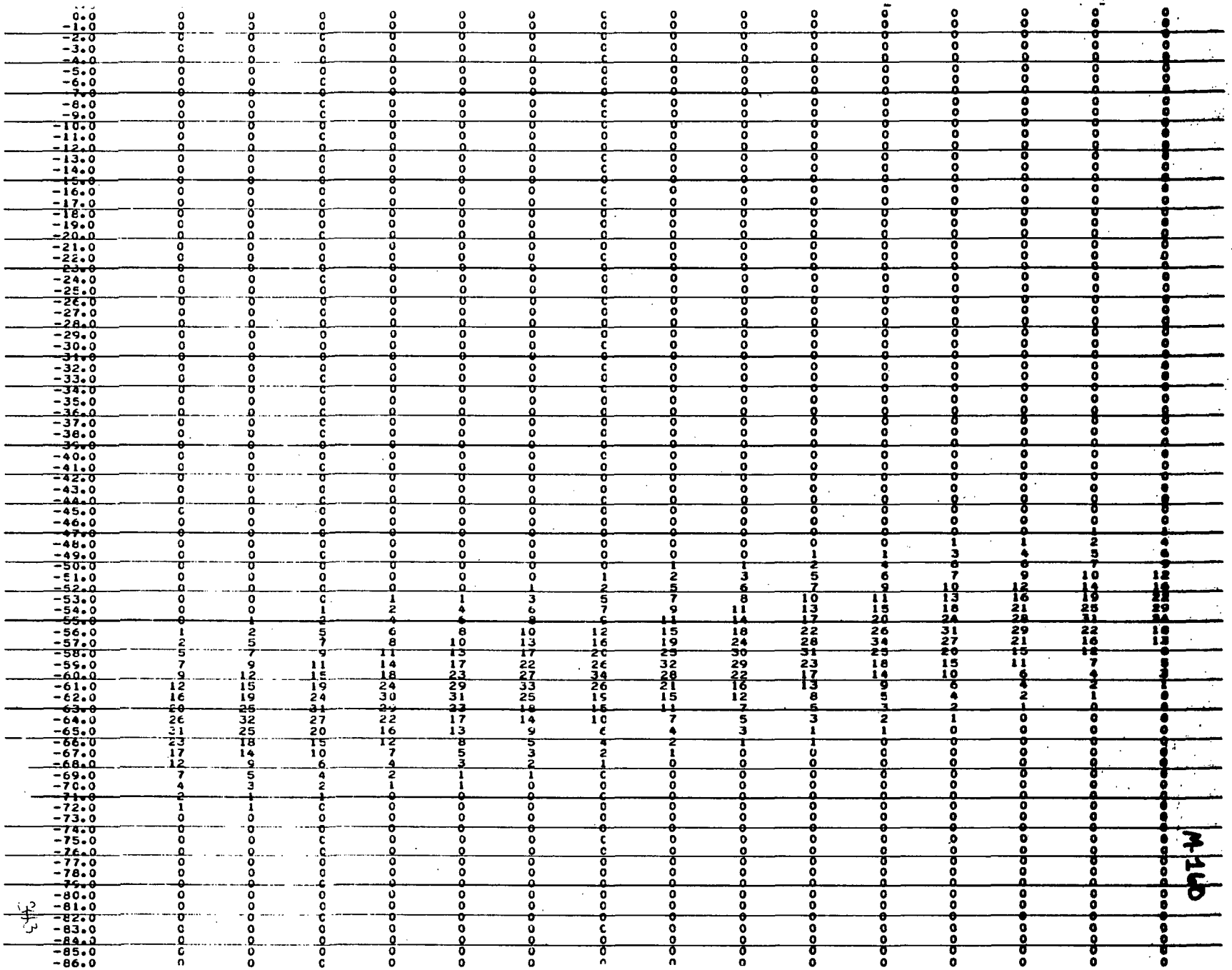
	-45.0	-42.0	-39.0	-36.0	-33.0	-30.0	-27.0	-24.0	-21.0	-18.0	-15.0	-12.0	-9.0	-6.0	-3.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
62.0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	3
61.0	0	0	0	0	0	0	0	0	0	1	2	3	4	6	8
60.0	0	0	0	0	0	0	0	1	2	3	4	6	8	10	12
59.0	0	0	0	0	0	1	1	3	4	6	8	10	13	16	20
58.0	0	0	0	0	1	2	3	6	8	10	13	17	19	15	13
57.0	0	0	1	2	3	5	8	10	13	17	18	15	13	10	8
56.0	0	1	2	4	7	9	12	16	18	14	11	9	7	6	5
55.0	2	3	5	8	11	14	15	15	12	9	7	5	4	3	3
54.0	4	7	9	12	17	16	12	9	7	5	4	3	2	1	0
53.0	8	10	14	18	14	10	8	6	4	3	2	1	0	0	0
52.0	12	17	15	12	9	6	5	3	2	1	0	0	0	0	0
51.0	18	13	10	7	5	4	3	1	0	0	0	0	0	0	0
50.0	12	9	6	4	3	2	0	0	0	0	0	0	0	0	0
49.0	7	5	4	3	1	0	0	0	0	0	0	0	0	0	0
48.0	5	3	2	0	0	0	0	0	0	0	0	0	0	0	0
47.0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 4.000 AVFLUX/SEC= 5.035E 02 ELECTRONS

	0.0	3.0	6.0	9.0	12.0	15.0	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
66.0	0	0	0	0	0	0	0	1	1	1	2	2	2	2	3
65.0	0	0	0	1	1	1	2	2	3	3	3	4	5	5	4
64.0	1	1	1	2	3	3	4	5	6	7	8	8	8	9	9
63.0	2	3	4	5	6	7	8	9	10	11	12	12	13	14	15
62.0	5	6	8	9	10	11	13	14	16	17	18	18	19	14	15
61.0	9	10	12	14	16	19	18	16	14	13	12	10	10	9	8
60.0	14	17	19	17	14	13	11	10	9	8	7	6	6	5	5
59.0	17	14	12	10	9	8	7	6	5	5	4	4	3	3	3
58.0	11	9	8	6	5	5	4	4	3	3	2	2	2	1	1
57.0	6	6	6	4	3	3	3	2	1	1	0	0	0	0	0
56.0	4	3	3	2	1	0	0	0	0	0	0	0	0	0	0
55.0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



M-16D

ALTITUDE= 900.0 ENERGY= 4.000 AVFLUX/SEC= 5.035E 02 ELECTRONS

	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0	75.0	78.0	81.0	84.0	87.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2
67.0	1	1	2	2	2	2	2	2	2	3	3	3	3	3	3
66.0	3	3	3	4	4	5	5	5	6	6	6	6	6	6	6
65.0	7	7	7	7	7	8	8	8	8	9	9	9	9	10	10
64.0	10	10	11	11	12	12	13	13	14	14	15	14	13	13	12
63.0	16	17	16	15	14	13	12	11	11	10	10	9	9	8	8
62.0	12	11	10	9	9	8	8	7	7	6	6	6	5	5	5
61.0	7	7	6	6	5	5	5	4	4	4	4	3	3	3	3
60.0	4	4	4	3	3	3	3	3	2	2	2	2	2	2	1
59.0	3	2	2	2	2	1	1	1	1	0	0	0	0	0	0
58.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ORIGINAL PAGE IS
OF POOR QUALITY

1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
-43.0	0	0	0	0	0	0	0	0	0	0	1	2	3	3	3	4
-44.0	0	0	0	0	0	0	1	1	3	3	4	4	5	5	5	6
-45.0	0	0	0	1	1	2	3	4	4	5	6	7	8	9	10	
-46.0	0	1	2	3	4	5	5	6	7	8	10	11	13	14	16	
-47.0	2	4	5	6	6	7	8	9	11	13	15	17	19	15	12	
-48.0	5	6	7	8	9	10	12	14	16	19	20	15	12	9	7	
-49.0	7	8	9	11	13	15	17	20	22	17	13	10	8	6	4	
-50.0	10	12	13	16	18	21	25	19	14	11	9	6	4	3	2	
-51.0	14	16	19	22	26	22	17	13	10	7	5	3	2	1	0	
-52.0	19	22	26	26	20	15	12	9	6	4	2	1	1	0	0	
-53.0	26	29	23	18	14	11	7	5	3	2	1	0	0	0	0	
-54.0	27	21	16	13	9	6	4	2	1	1	0	0	0	0	0	
-55.0	19	15	12	8	5	3	2	1	0	0	0	0	0	0	0	
-56.0	14	10	7	4	3	1	1	0	0	0	0	0	0	0	0	
-57.0	9	6	4	2	1	1	0	0	0	0	0	0	0	0	0	
-58.0	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	
-59.0	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	
-60.0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
-61.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-82.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-83.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-84.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-85.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-86.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

ALTITUDE= 900.0 ENERGY= 4.000 AVFLUX/SEC= 5.035E 02 ELECTRONS

	90.0	93.0	96.0	99.0	102.0	105.0	108.0	111.0	114.0	117.0	120.0	123.0	126.0	129.0	132.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
68.0	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3
67.0	4	4	4	4	5	5	5	6	6	6	6	6	6	6	6
66.0	6	7	7	7	7	7	8	8	8	8	9	9	9	9	10
65.0	10	11	11	12	12	12	12	13	14	13	13	13	13	13	13
64.0	12	11	11	10	10	10	9	9	9	8	8	8	8	8	8
63.0	7	7	7	6	6	6	6	5	5	5	5	5	5	5	5
62.0	4	4	4	4	4	3	3	3	3	3	3	3	3	3	3
61.0	3	2	2	2	2	2	2	2	2	2	2	2	1	1	1
60.0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-41.0	0	1	1	1	2	2	2	2	2	2	2	1	1	1	1	1	0
-42.0	2	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	0
-43.0	4	4	5	5	5	6	6	6	6	5	5	5	5	4	4	3	0
-44.0	7	7	8	9	9	9	10	10	10	9	9	9	8	7	7	6	0
-45.0	11	12	13	14	14	12	11	10	10	10	10	10	10	11	12	11	0
-46.0	15	13	10	5	8	7	6	6	6	5	5	6	6	6	6	17	0
-47.0	7	8	7	6	6	4	3	3	3	3	3	3	3	5	4	8	0
-48.0	6	4	3	2	2	2	1	1	1	1	1	1	1	3	2	2	0
-49.0	3	2	1	1	1	0	0	0	0	0	0	0	0	1	1	0	0
-50.0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-82.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-83.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-84.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-85.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-86.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

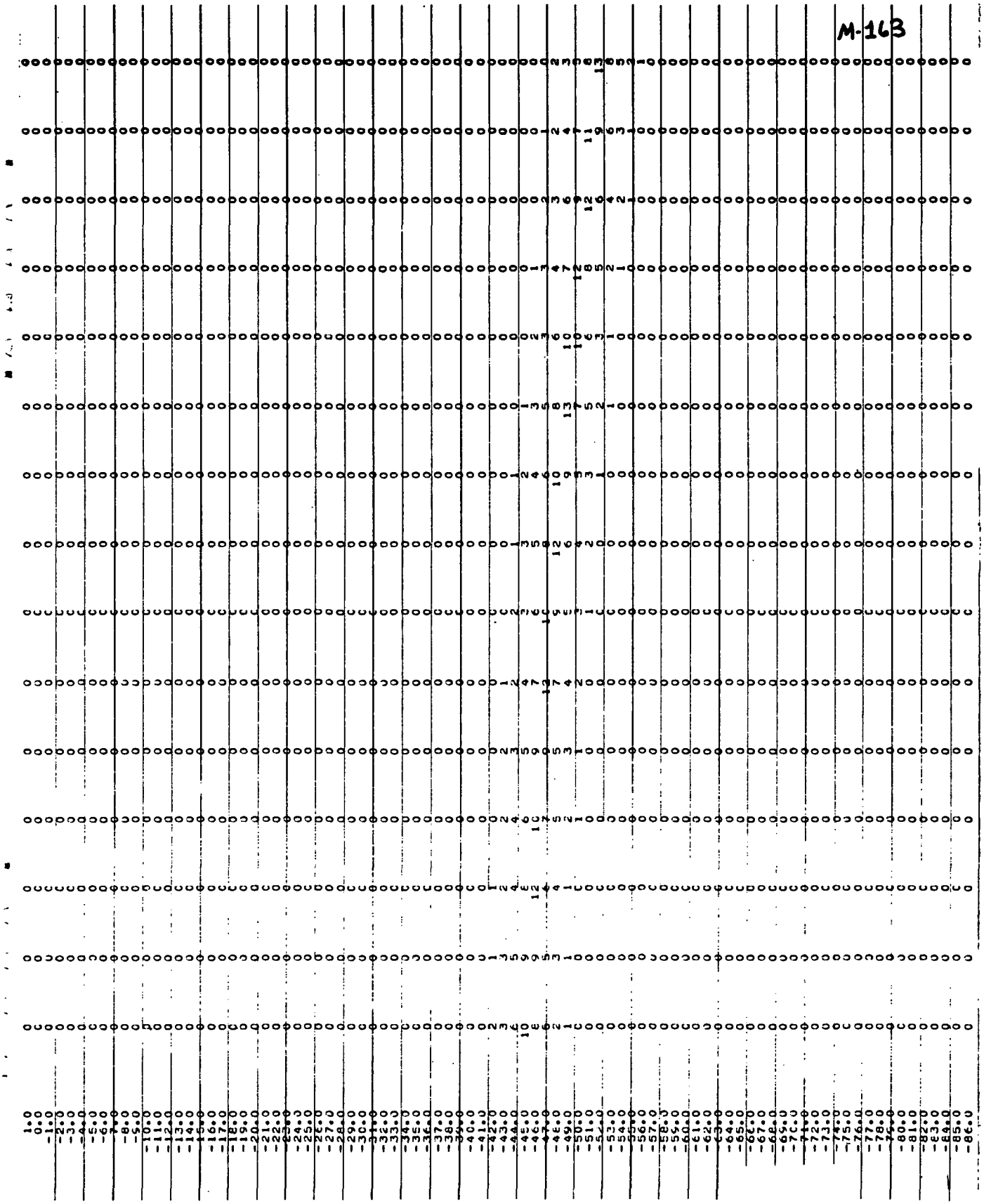
M-142

44

ALTITUDE= 900.0 ENERGY= 4.000 AVFLUX/SEC= 5.039E 02 ELECTRONS

	135.0	138.0	141.0	144.0	147.0	150.0	153.0	156.0	159.0	162.0	165.0	168.0	171.0	174.0	177.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
68.0	3	3.	3	3	3	3	2	2	2	2	2	1	1	1	0
67.0	6	6	6	6	6	6	6	5	5	4	4	3	3	2	2
66.0	10	10	10	10	10	9	9	9	8	8	7	7	6	5	4
65.0	13	13	13	14	14	15	16	15	14	13	12	11	10	9	8
64.0	8	8	8	8	9	9	10	11	11	12	13	15	17	15	13
63.0	5	5	5	5	5	6	6	6	7	8	8	9	11	12	14
62.0	3	3	3	3	3	3	3	4	4	4	5	6	6	7	9
61.0	1	1	1	1	2	2	2	2	2	3	3	3	4	4	5
60.0	0	0	0	0	0	0	0	0	0	1	1	2	2	3	3
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

M-163



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE: 900 KM

ELECTRONS: E>5.0 MEV

INNER ZONE MODEL: AE6 (SOLAR MAX)

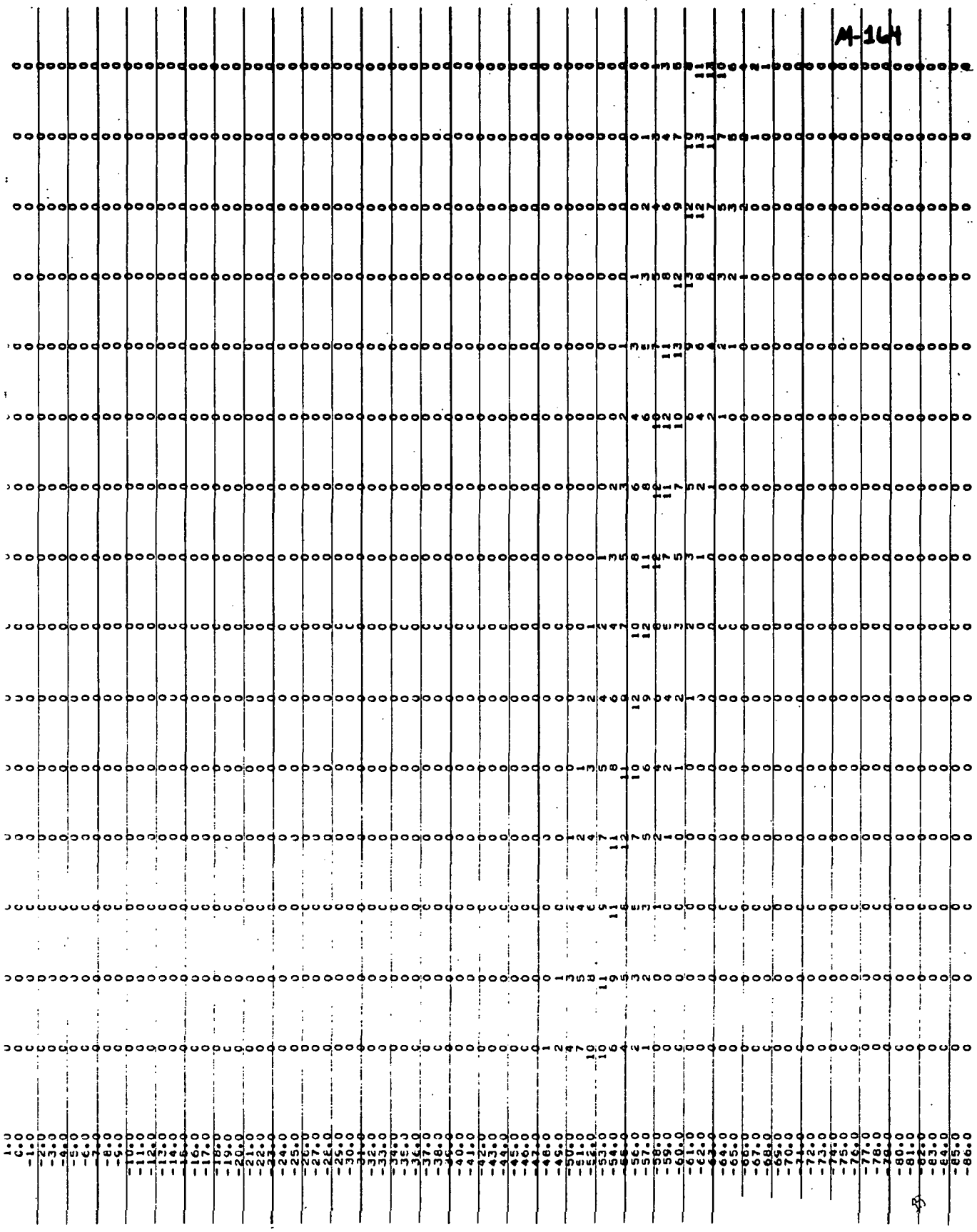
OUTER ZONE MODEL: AE17-HI

ORIGINAL PAGE IS
OF POOR QUALITY

35

ALTITUDE= 900.0 ENERGY= 5.000 AVFLUX/SEC= 1.233E 02 ELECTRONS

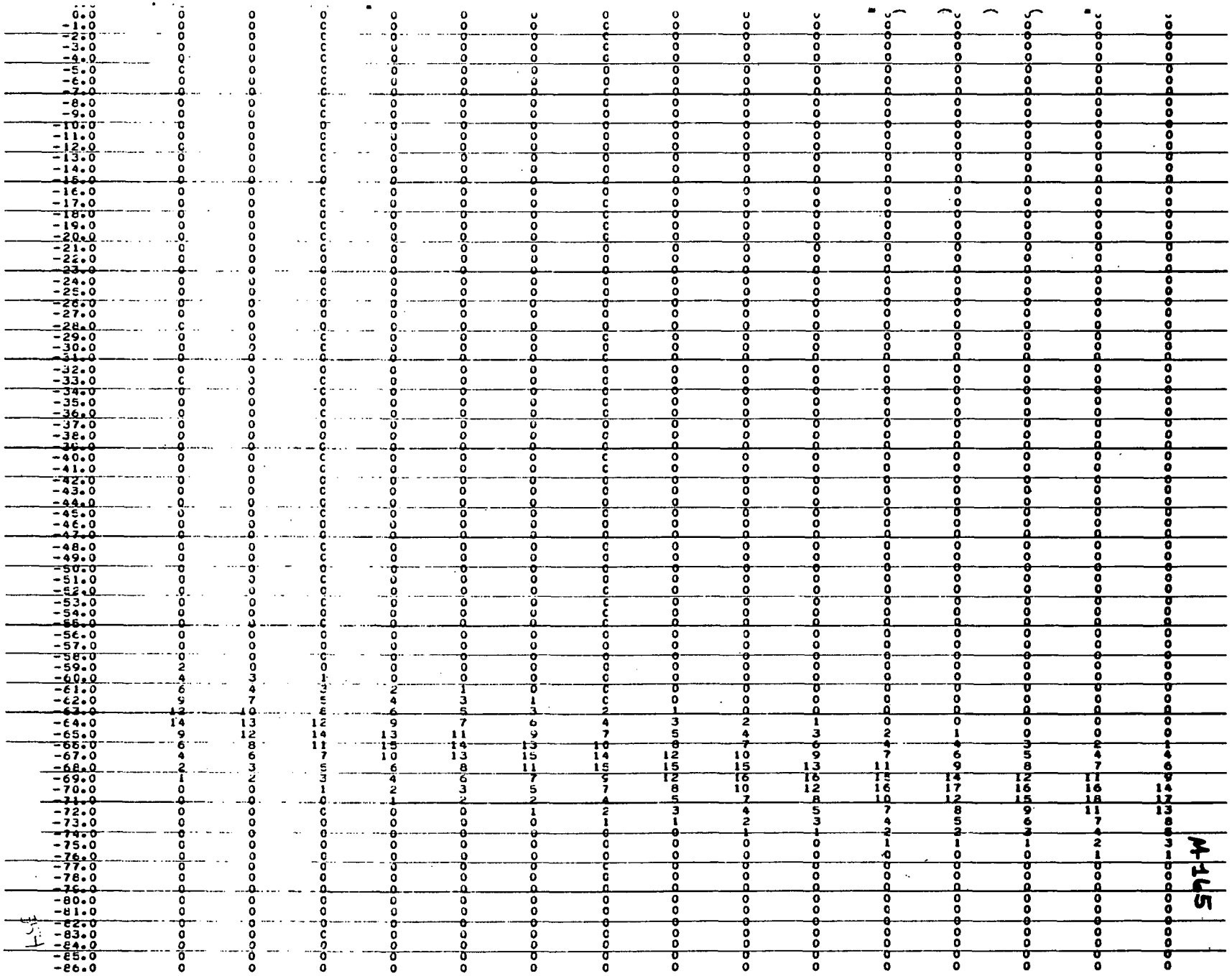
	-180.0	-177.0	-174.0	-171.0	-168.0	-165.0	-162.0	-159.0	-156.0	-153.0	-150.0	-147.0	-144.0	-141.0	-138.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
65.0	6	5	4	3	2	1	1	0	0	0	0	0	0	0	0
64.0	9	8	7	6	4	3	2	1	1	0	0	0	0	0	0
63.0	15	13	11	9	7	6	5	3	2	1	0	0	0	0	0
62.0	12	13	14	15	12	10	8	6	4	3	2	1	0	0	0
61.0	7	9	10	13	14	15	13	10	7	6	4	2	2	1	0
60.0	4	5	7	8	10	12	14	15	12	9	7	5	3	2	1
59.0	2	3	4	5	6	8	10	12	14	15	11	8	6	4	3
58.0	0	1	2	3	4	5	6	8	10	13	14	13	10	7	5
57.0	0	0	0	0	1	3	3	5	6	8	11	11	14	11	8
56.0	0	0	0	0	0	0	1	3	4	5	7	9	12	13	13
55.0	0	0	0	0	0	0	0	0	1	3	4	6	8	10	13
54.0	0	0	0	0	0	0	0	0	0	1	2	3	5	6	9
53.0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	5
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 5.000 AVFLUX/SEC= 1.233E 02 ELECTRONS

	-135.0	-132.0	-129.0	-126.0	-123.0	-120.0	-117.0	-114.0	-111.0	-108.0	-105.0	-102.0	-99.0	-96.0	-93.0
84.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59.0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0
57.0	6	4	2	1	0	0	0	0	0	0	0	0	0	0	0
56.0	9	7	5	3	2	1	0	0	0	0	0	0	0	0	0
55.0	14	11	7	6	4	2	1	0	0	0	0	0	0	0	0
54.0	11	13	12	9	6	5	3	2	1	0	0	0	0	0	0
53.0	7	10	12	14	10	7	5	4	2	2	1	0	0	0	0
52.0	5	6	8	11	13	12	8	6	5	3	2	1	1	0	0
51.0	3	4	5	7	10	12	13	10	7	6	4	3	2	2	1
50.0	0	2	3	5	6	8	11	12	12	9	7	5	4	3	2
49.0	0	0	1	2	4	6	7	9	12	13	11	8	7	5	5
48.0	0	0	0	0	2	3	4	6	8	10	12	13	11	9	7
47.0	0	0	0	0	0	1	2	3	5	6	8	10	12	13	12
46.0	0	0	0	0	0	0	0	2	3	4	5	7	8	10	12
45.0	0	0	0	0	0	0	0	0	1	2	3	4	5	6	8
44.0	0	0	0	0	0	0	0	0	0	0	1	2	3	4	5
43.0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

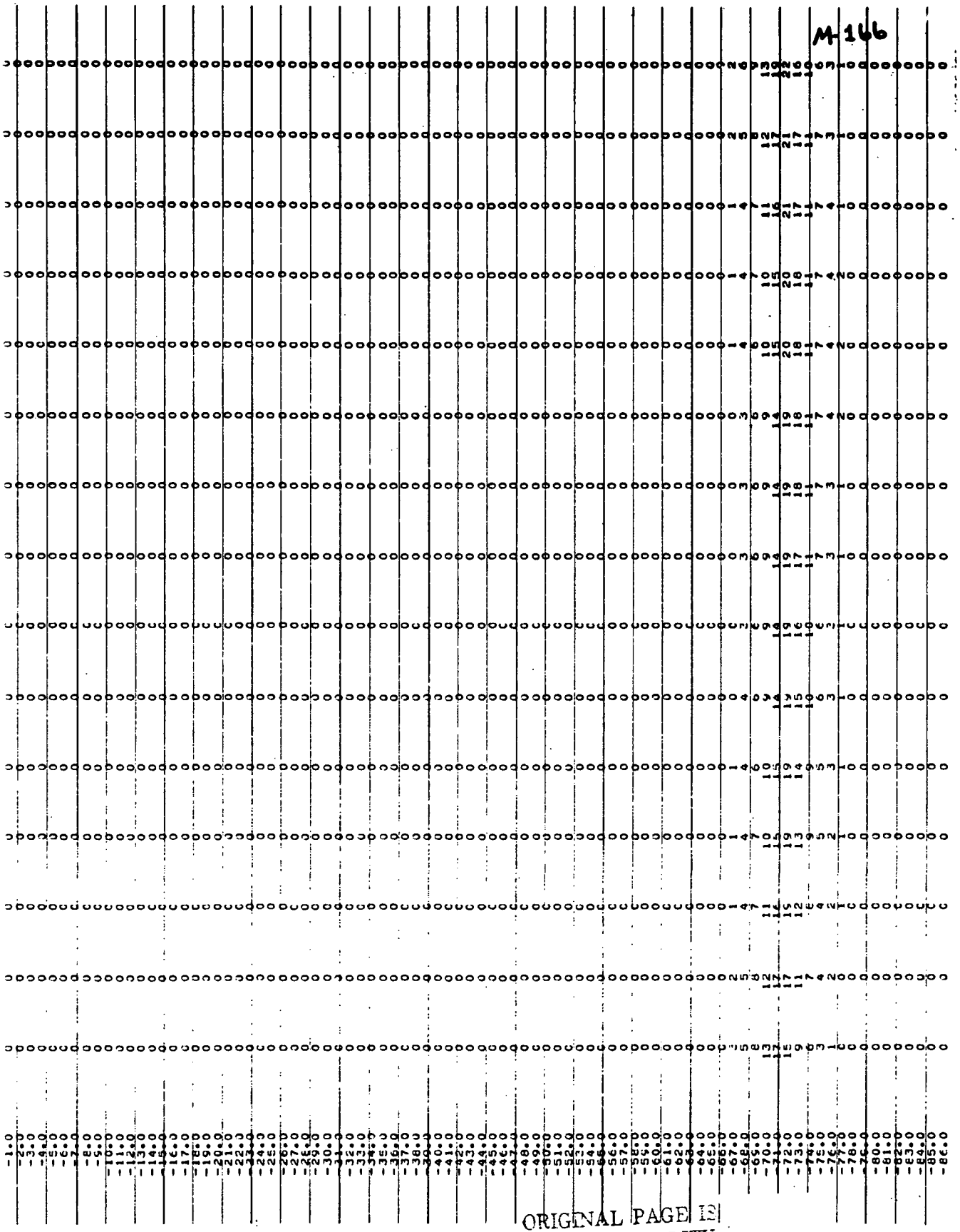


M-145

ALTITUDE= 900.0 ENERGY= 5.000 AVFLUX/SEC= 1.233E 02 ELECTRONS

	-90.0	-87.0	-84.0	-81.0	-78.0	-75.0	-72.0	-69.0	-66.0	-63.0	-60.0	-57.0	-54.0	-51.0	-48.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
53.0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	5
52.0	0	0	0	0	0	0	0	0	0	1	2	2	4	6	8
51.0	1	0	0	0	0	0	1	1	2	2	3	5	7	9	12
50.0	2	2	2	1	2	2	2	2	3	4	6	7	10	14	15
49.0	4	3	3	3	3	3	4	5	6	7	9	12	15	14	11
48.0	6	6	6	6	6	6	6	7	9	11	14	14	13	10	7
47.0	10	9	9	8	8	9	10	12	14	14	13	11	9	6	5
46.0	12	13	13	13	13	13	13	13	13	11	9	7	5	4	3
45.0	9	10	11	11	12	11	11	10	8	7	6	4	3	2	0
44.0	6	6	7	7	8	7	7	6	5	4	3	2	1	0	0
43.0	3	4	4	5	5	5	4	4	3	3	1	0	0	0	0
42.0	2	2	2	3	3	3	2	2	1	0	0	0	0	0	0
41.0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

M-166



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 5.000 AVFLUX/SEC= 1.233E 02 ELECTRONS

	-45.0	-42.0	-39.0	-36.0	-33.0	-30.0	-27.0	-24.0	-21.0	-18.0	-15.0	-12.0	-9.0	-6.0	-3.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
62.0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	3
61.0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	7
60.0	0	0	0	0	0	0	0	1	2	3	4	6	7	9	10
59.0	0	0	0	0	0	1	1	3	4	6	7	9	11	14	17
58.0	0	0	0	0	1	2	3	5	7	9	12	15	17	16	15
57.0	0	0	1	2	3	5	7	9	11	15	17	16	14	11	8
56.0	0	1	2	4	6	8	11	14	17	16	13	11	9	7	6
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54.0	4	6	8	11	15	16	14	11	8	6	5	4	3	1	0
53.0	7	9	12	16	15	12	9	7	5	4	3	1	0	0	0
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49.0	9	6	4	3	1	0	0	0	0	0	0	0	0	0	0
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47.0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0
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32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

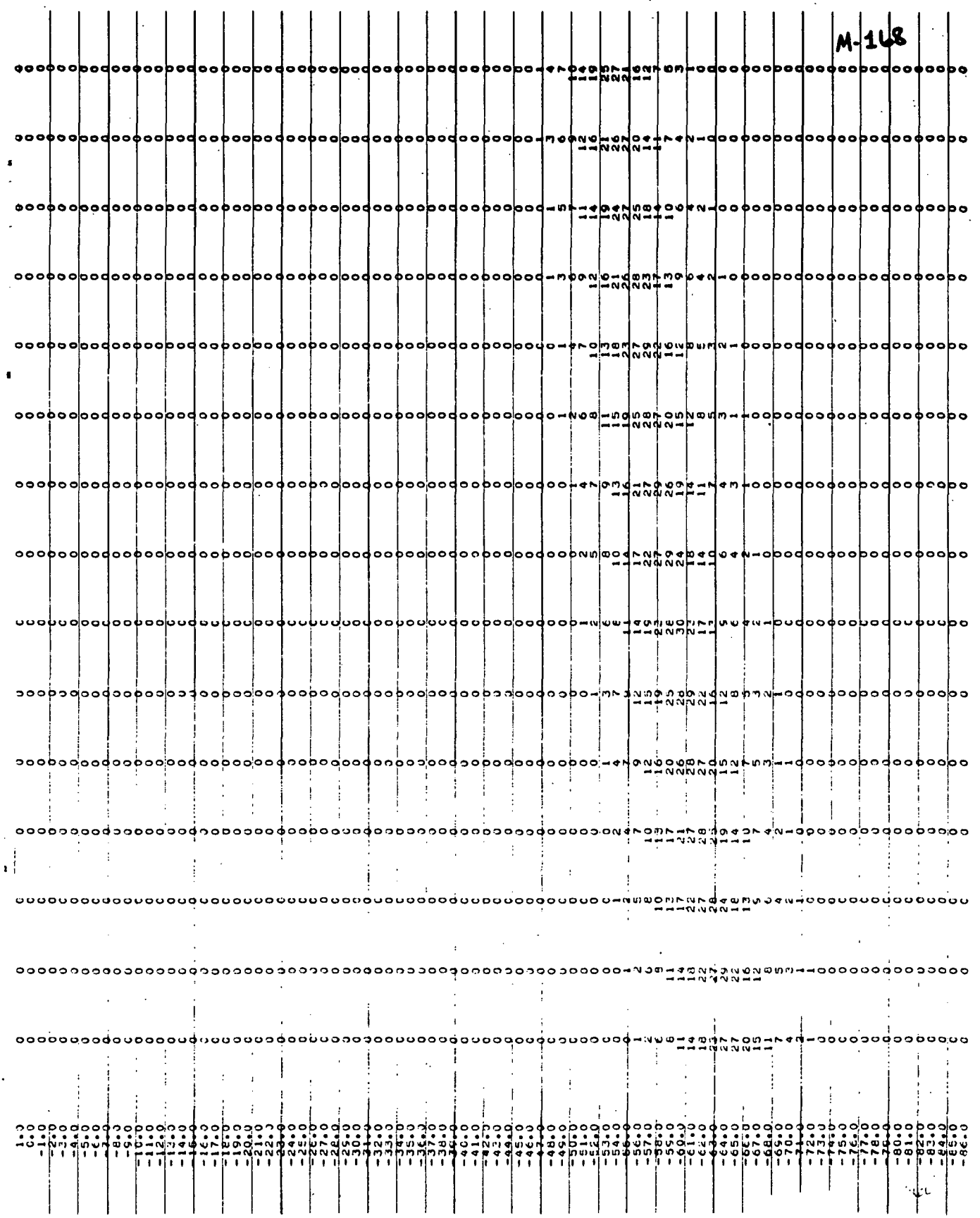
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-3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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-5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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-11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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-19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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-31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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-39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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-46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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-56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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-58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3
-59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6
-60.0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	8
-61.0	0	0	0	0	0	0	0	0	0	0	1	2	4	7	9	11
-62.0	0	0	0	0	0	0	0	0	0	1	2	5	7	9	12	15
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-65.0	0	0	0	1	2	4	6	7	9	11	14	17	21	25	27	27
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-67.0	4	5	6	7	8	10	12	14	17	20	24	26	27	22	18	18
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-70.0	14	16	18	20	22	23	24	23	20	17	14	12	10	8	6	4
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-73.0	15	14	13	12	11	10	8	7	6	5	4	3	2	1	1	1
-74.0	10	10	9	8	7	6	5	4	3	2	2	1	1	0	0	0
-75.0	6	5	5	4	4	3	3	2	1	1	1	0	0	0	0	0
-76.0	3	3	2	2	2	1	1	1	0	0	0	0	0	0	0	0
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-78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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-85.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-86.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

M-167

C-6

ALTITUDE= 900.0 ENERGY= 5.000 AVFLUX/SEC= 1.233E 02 ELECTRONS

	0.0	3.0	6.0	9.0	12.0	15.0	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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67.0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
66.0	0	0	0	0	0	0	0	1	1	1	2	2	2	2	3
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53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 5.000 AVFLUX/SEC= 1.233E 02 ELECTRONS

	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0	75.0	78.0	81.0	84.0	87.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2
67.0	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3
66.0	3	3	3	4	4	4	4	5	5	5	5	5	5	6	6
65.0	6	6	6	6	7	7	7	7	7	7	8	8	8	8	9
64.0	9	9	10	10	10	11	11	12	12	12	13	13	12	12	12
63.0	14	15	14	14	13	13	13	12	12	11	11	10	10	9	9
62.0	13	13	12	11	10	10	9	8	8	7	7	7	6	6	6
61.0	9	8	7	7	6	6	6	5	5	5	4	4	4	4	3
60.0	5	5	5	4	4	4	3	3	3	3	2	2	2	2	2
59.0	3	3	2	2	2	2	1	1	1	0	0	0	0	0	0
58.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
-43.0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	3	4	4
-44.0	0	0	0	0	0	0	1	2	3	4	4	5	6	7	7	7	7
-45.0	0	0	0	1	1	2	4	4	5	6	7	8	9	10	11	11	11
-46.0	0	1	2	3	4	5	6	7	8	10	11	13	14	14	14	14	14
-47.0	2	4	5	6	7	8	9	11	13	14	16	16	17	17	17	16	16
-48.0	6	7	8	9	10	12	14	16	18	18	18	16	13	10	8	7	7
-49.0	8	10	11	13	15	17	19	20	19	15	11	9	7	5	4	4	4
-50.0	12	14	16	18	21	21	22	17	13	10	8	6	4	3	2	2	2
-51.0	16	19	22	23	23	19	15	11	9	6	4	3	2	1	1	1	1
-52.0	22	24	24	22	17	13	10	8	5	3	2	1	1	0	0	0	0
-53.0	25	26	20	16	12	10	7	4	3	2	1	0	0	0	0	0	0
-54.0	23	18	14	11	8	6	4	2	1	0	0	0	0	0	0	0	0
-55.0	17	13	10	7	5	3	2	1	0	0	0	0	0	0	0	0	0
-56.0	12	9	6	4	3	1	1	0	0	0	0	0	0	0	0	0	0
-57.0	8	6	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0
-58.0	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
-59.0	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-60.0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-61.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-82.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-83.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-84.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-85.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

M-149

ALTITUDE= 900.0 ENERGY= 5.000 AVFLUX/SEC= 1.233E 02 ELECTRONS

	90.0	93.0	96.0	99.0	102.0	105.0	108.0	111.0	114.0	117.0	120.0	123.0	126.0	129.0	132.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
68.0	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3
67.0	3	4	4	4	4	4	5	5	5	5	5	5	5	5	5
66.0	6	6	6	6	6	6	7	7	7	7	7	8	8	8	8
65.0	9	9	10	10	10	11	11	12	12	12	13	13	13	13	13
64.0	11	11	11	11	11	10	10	10	10	10	9	9	9	9	9
63.0	8	8	8	7	7	7	7	6	6	6	6	6	6	6	6
62.0	5	5	5	5	4	4	4	4	4	4	4	3	3	3	3
61.0	3	3	3	3	2	2	2	2	2	2	2	2	2	2	1
60.0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

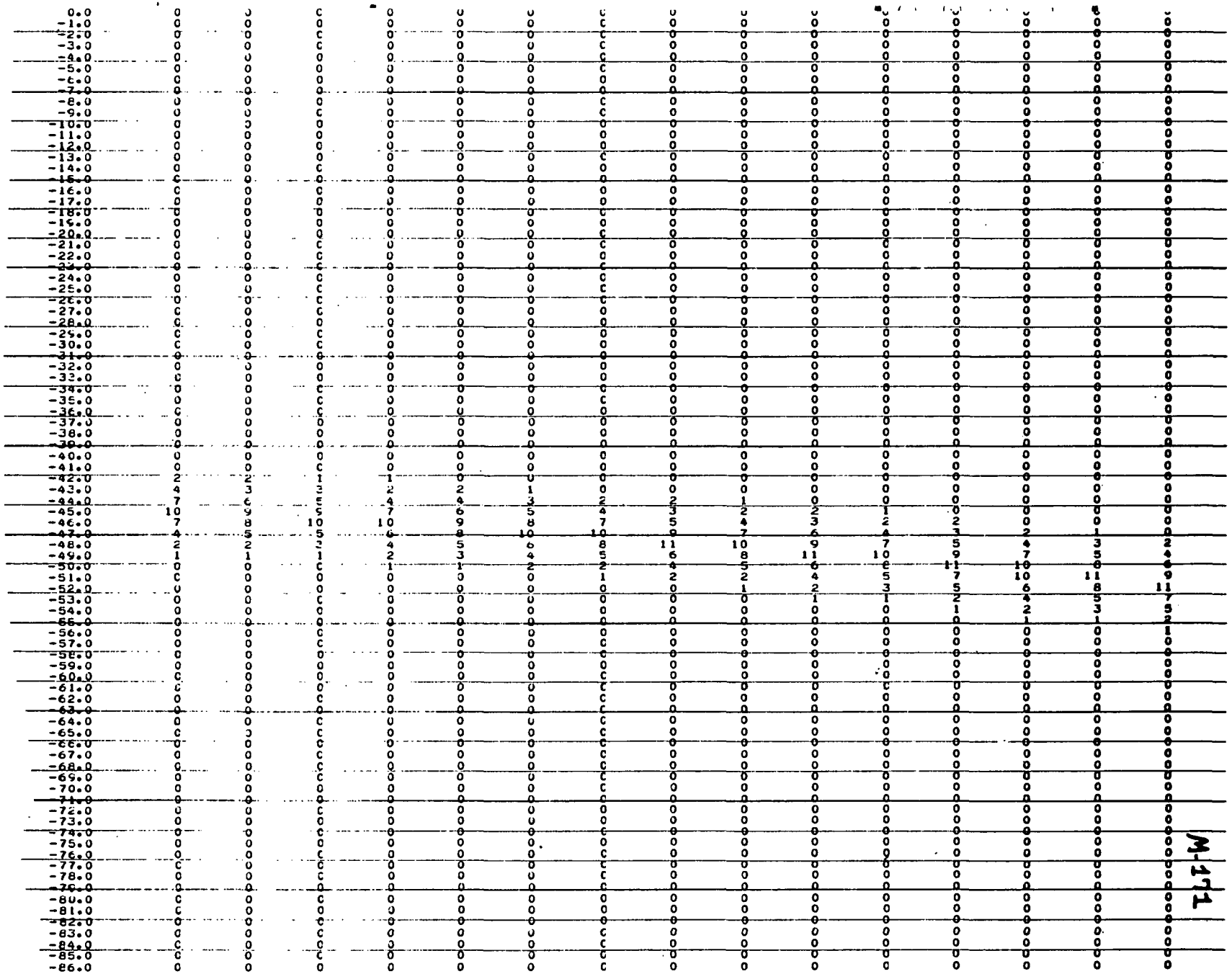
1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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-25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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-34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-41.0	0	1	1	2	2	2	2	2	2	2	2	2	2	1	1	1	1
-42.0	3	3	3	3	4	4	4	4	4	4	4	3	3	3	3	3	2
-43.0	5	5	6	6	6	7	7	7	7	6	6	6	6	5	5	4	3
-44.0	8	9	9	10	10	10	10	10	10	10	10	10	9	9	8	8	5
-45.0	13	12	12	13	12	11	10	9	8	8	8	9	9	9	10	10	7
-46.0	13	11	9	8	7	6	5	5	5	5	5	5	5	5	5	6	4
-47.0	8	7	6	5	4	4	3	3	3	3	3	3	3	3	3	4	2
-48.0	6	4	3	2	2	2	1	1	1	1	1	1	1	1	1	2	1
-49.0	3	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
-50.0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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-55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-82.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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-85.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-86.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

M-170

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 5.000 AVFLUX/SEC= 1.233E 02 ELECTRONS

	135.0	138.0	141.0	144.0	147.0	150.0	153.0	156.0	159.0	162.0	165.0	168.0	171.0	174.0	177.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
68.0	3	3	3	3	3	2	2	2	2	2	2	1	1	1	0
67.0	5	6	6	6	6	6	5	5	4	4	3	3	2	2	2
66.0	9	9	9	9	8	8	8	8	7	7	6	6	6	5	4
65.0	12	12	12	13	13	12	14	13	12	11	11	10	8	8	7
64.0	9	9	10	10	10	11	11	12	12	13	13	14	15	13	11
63.0	6	6	6	6	6	7	7	8	8	9	10	11	12	13	14
62.0	3	3	3	4	4	4	4	5	5	6	6	7	8	9	10
61.0	1	1	1	2	2	2	2	2	3	3	3	4	5	5	6
60.0	0	0	0	0	0	0	0	0	0	1	1	2	2	3	4
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0


0.0
-1.0
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-75.0
-76.0
-77.0
-78.0
-79.0
-80.0
-81.0
-82.0
-83.0
-84.0
-85.0
-86.0

M-171

ALTITUDE: 900 KM

ELECTRONS: E>6.0 MEV

INNER ZONE MODEL: AE6 (SOLAR MAX)

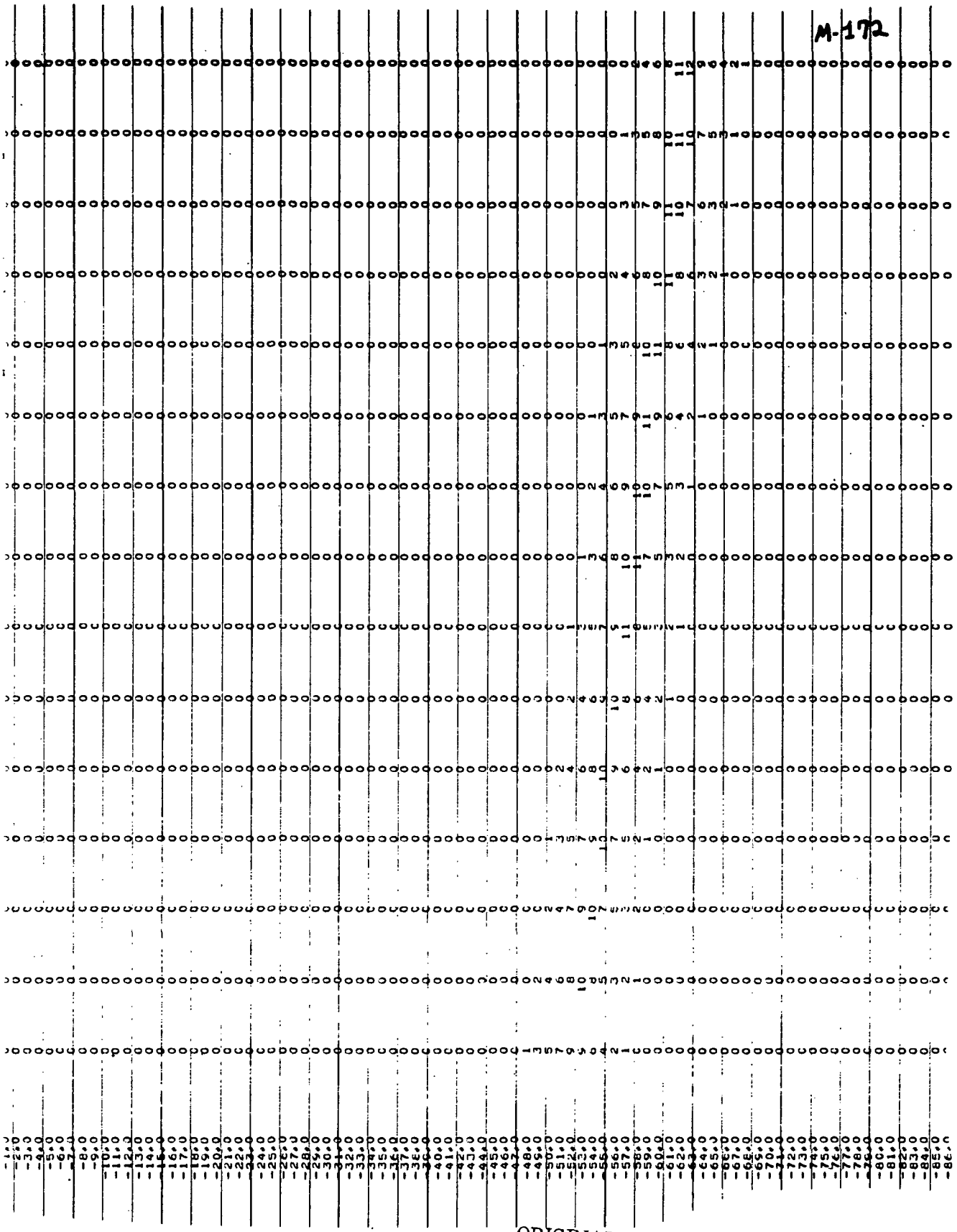
OUTER ZONE MODEL: AE17-H1

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 6.000 AVFLUX/SEC= 1.084E 01 ELECTRONS

	-180.0	-177.0	-174.0	-171.0	-168.0	-165.0	-162.0	-159.0	-156.0	-153.0	-150.0	-147.0	-144.0	-141.0	-138.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0
65.0	6	5	4	3	2	1	1	0	0	0	0	0	0	0	0
64.0	9	8	7	6	5	3	2	2	1	0	0	0	0	0	0
63.0	13	12	10	9	7	6	5	3	2	1	1	0	0	0	0
62.0	11	12	13	13	11	9	8	6	5	3	2	1	0	0	0
61.0	8	9	10	12	12	13	11	9	7	6	4	3	2	1	0
60.0	5	6	7	8	10	11	12	13	11	9	7	5	3	2	1
59.0	3	4	5	6	7	8	10	11	12	13	10	8	6	4	3
58.0	0	1	2	3	4	6	7	9	10	12	12	12	9	7	5
57.0	0	0	0	0	2	3	4	6	7	9	10	12	13	10	8
56.0	0	0	0	0	0	0	1	3	4	6	8	9	11	12	12
55.0	0	0	0	0	0	0	0	0	2	4	5	7	8	10	11
54.0	0	0	0	0	0	0	0	0	0	1	3	4	6	7	9
53.0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	6
52.0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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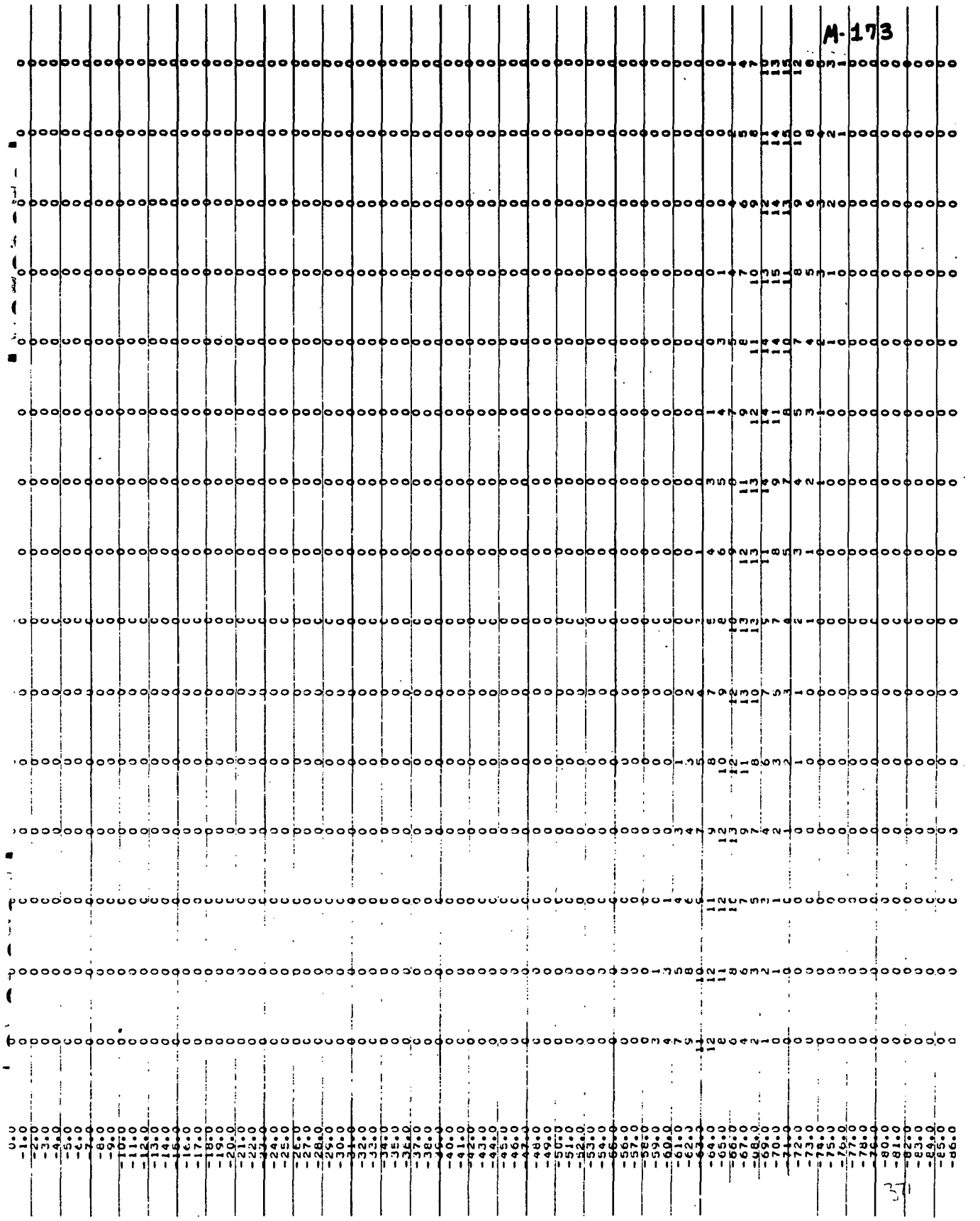
M-172



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 6.000 AVFLUX/SEC= 1.084E 01 ELECTRONS

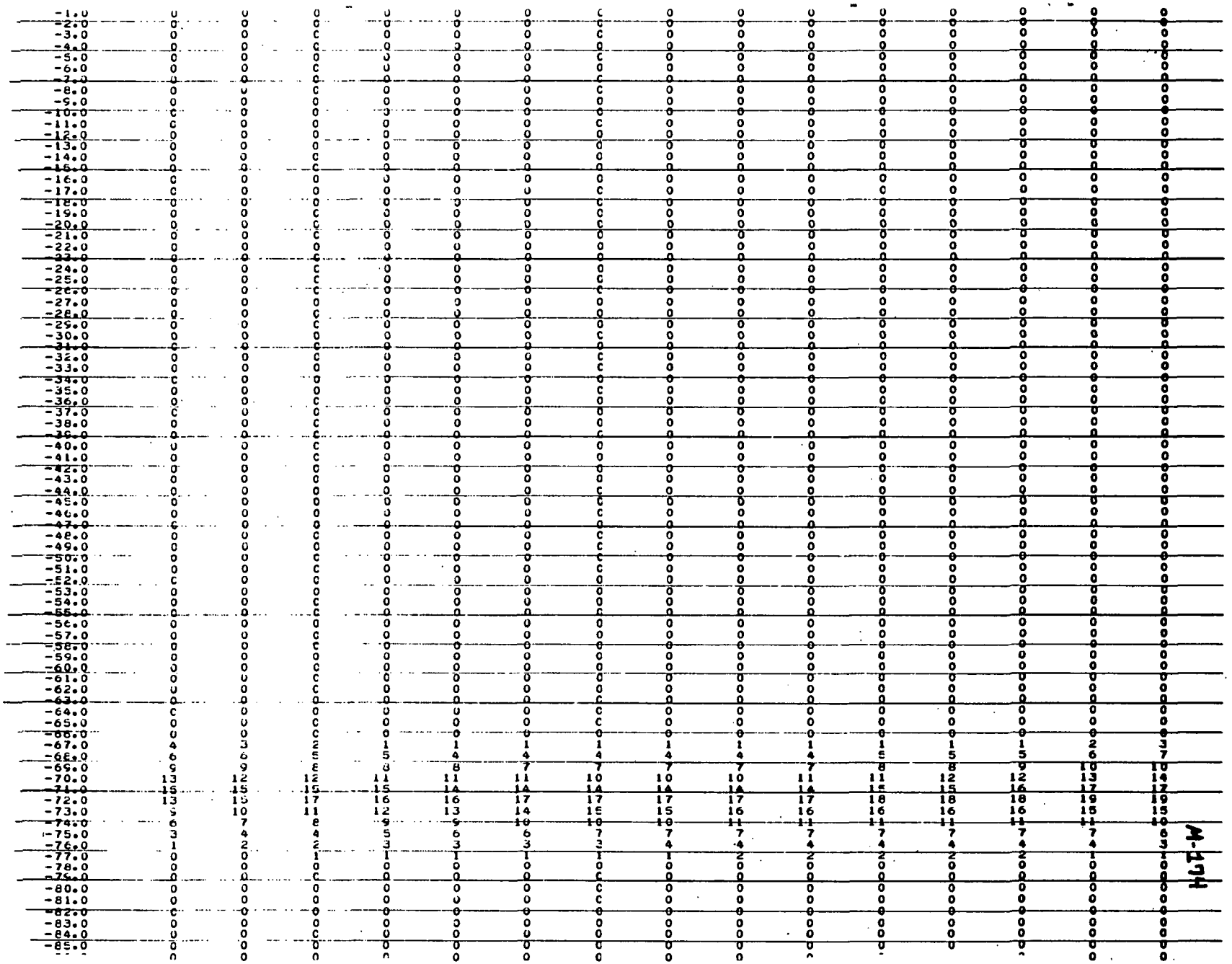
	-135.0	-132.0	-129.0	-126.0	-123.0	-120.0	-117.0	-114.0	-111.0	-108.0	-105.0	-102.0	-99.0	-96.0	-93.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59.0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0
57.0	6	4	2	1	0	0	0	0	0	0	0	0	0	0	0
56.0	9	7	5	3	2	1	0	0	0	0	0	0	0	0	0
55.0	12	10	7	6	4	2	1	1	0	0	0	0	0	0	0
54.0	11	12	11	8	6	5	3	2	1	0	0	0	0	0	0
53.0	6	10	11	12	9	7	6	4	2	2	1	0	0	0	0
52.0	5	7	9	10	11	10	8	6	5	3	2	1	1	0	0
51.0	3	4	6	8	9	11	11	9	7	6	4	3	2	2	1
50.0	0	2	4	5	7	9	10	11	11	8	6	6	4	3	2
49.0	0	0	1	3	4	6	8	9	10	11	10	8	6	5	5
48.0	0	0	0	0	2	4	5	7	8	10	10	11	10	8	7
47.0	0	0	0	0	0	1	3	4	6	7	8	10	10	11	11
46.0	0	0	0	0	0	0	0	2	3	5	6	7	8	9	10
45.0	0	0	0	0	0	0	0	0	1	3	4	5	6	7	8
44.0	0	0	0	0	0	0	0	0	0	0	1	3	4	5	6
43.0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	5
42.0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 6.000 AVFLUX/SEC= 1.084E 01 ELECTRONS

	-90.0	-87.0	-84.0	-81.0	-78.0	-75.0	-72.0	-69.0	-66.0	-63.0	-60.0	-57.0	-54.0	-51.0	-48.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
54.0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
53.0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	5
52.0	0	0	0	0	0	0	0	0	0	1	2	2	4	6	8
51.0	1	0	0	0	0	0	1	1	2	2	3	5	7	8	11
50.0	2	2	2	2	2	2	2	3	3	4	6	7	9	12	13
49.0	4	3	3	3	3	3	4	5	6	7	8	11	13	13	14
48.0	6	6	6	6	6	6	7	7	8	10	13	13	12	10	8
47.0	9	8	8	8	8	8	9	11	13	12	12	11	9	7	6
46.0	11	11	11	12	12	12	12	12	11	10	9	8	6	5	3
45.0	9	9	10	10	11	10	10	10	9	8	7	5	4	2	0
44.0	6	7	8	8	8	8	8	7	6	5	4	3	1	0	0
43.0	4	5	5	5	6	6	5	5	4	3	2	0	0	0	0
42.0	2	3	3	3	3	3	3	3	2	1	0	0	0	0	0
41.0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



M-174

3x/

ALTITUDE= 900.0 ENERGY= 6.000 AVFLUX/SEC= 1.084E 01 ELECTRONS

	-45.0	-42.0	-39.0	-36.0	-33.0	-30.0	-27.0	-24.0	-21.0	-18.0	-15.0	-12.0	-9.0	-6.0	-3.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
62.0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	3
61.0	0	0	0	0	0	0	0	0	0	1	2	3	4	5	7
60.0	0	0	0	0	0	0	0	1	2	3	4	6	7	9	10
59.0	0	0	0	0	0	1	2	3	4	6	8	9	11	13	15
58.0	0	0	0	0	1	2	4	5	7	9	11	13	15	14	13
57.0	0	0	1	2	3	5	7	9	11	13	15	14	13	11	10
56.0	0	1	2	4	6	8	10	13	15	14	13	11	9	8	7
55.0	2	3	5	7	9	12	15	14	13	11	9	8	6	5	4
54.0	4	6	8	10	13	14	13	11	9	8	6	4	3	1	0
53.0	7	9	11	14	14	12	10	8	6	4	3	1	0	0	0
52.0	10	13	14	13	11	9	7	5	3	1	0	0	0	0	0
51.0	14	13	11	9	7	5	4	2	0	0	0	0	0	0	0
50.0	12	10	8	6	4	3	1	0	0	0	0	0	0	0	0
49.0	9	7	6	4	1	0	0	0	0	0	0	0	0	0	0
48.0	7	4	3	1	0	0	0	0	0	0	0	0	0	0	0
47.0	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ORIGINAL PAGE IS
OF POOR QUALITY

0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
-58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3
-59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	7
-60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	8	10
-61.0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	8	10
-62.0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	8	11	14
-63.0	0	0	0	0	0	0	0	1	2	4	7	9	12	14	17	19	16
-64.0	0	0	0	0	0	1	3	6	8	10	12	15	17	20	22	24	22
-65.0	0	0	0	1	3	5	7	9	11	13	15	18	20	23	24	22	20
-66.0	1	2	3	5	7	8	10	12	14	17	19	21	23	24	22	20	17
-67.0	4	6	7	8	10	12	13	15	17	20	22	23	24	20	17	15	13
-68.0	8	9	10	12	13	15	17	19	21	22	23	21	18	15	13	11	9
-69.0	11	12	14	15	17	18	20	21	22	21	19	16	14	12	10	8	6
-70.0	15	16	17	19	20	21	21	21	18	16	14	12	11	8	6	5	4
-71.0	17	18	20	20	21	19	17	15	13	12	11	8	7	5	4	3	2
-72.0	20	19	18	16	15	14	12	11	10	8	6	5	4	3	2	1	1
-73.0	14	13	13	12	11	10	9	7	6	5	4	3	2	1	1	0	0
-74.0	10	10	9	8	7	6	5	4	4	3	2	1	1	0	0	0	0
-75.0	6	5	5	4	4	3	3	2	1	1	1	0	0	0	0	0	0
-76.0	3	3	3	2	2	1	1	1	0	0	0	0	0	0	0	0	0
-77.0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
-78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-82.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-83.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-84.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-85.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-86.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

M-175

ALTITUDE= 900.0 ENERGY= 6.000 AVFLUX/SEC= 1.084E 01 ELECTRONS

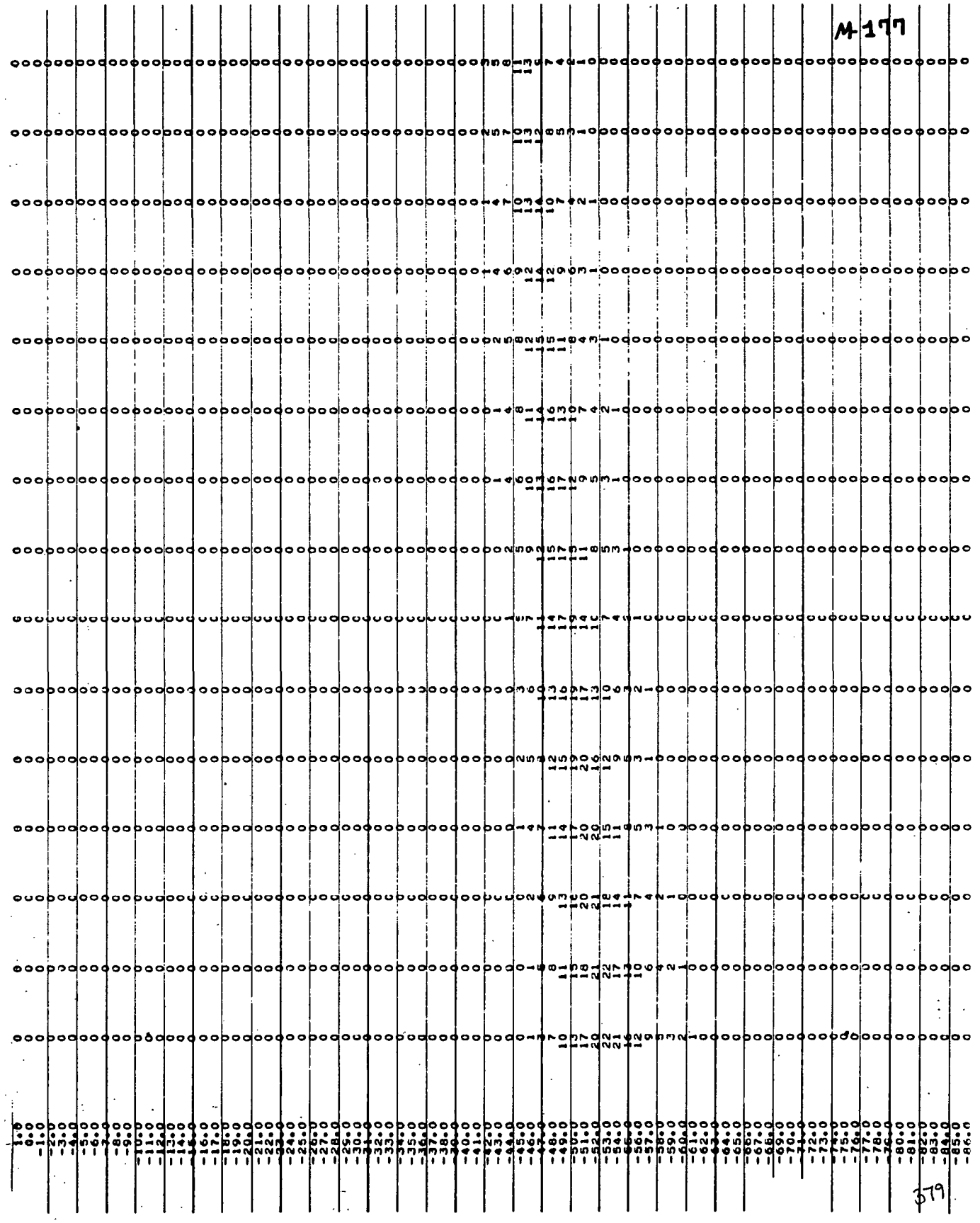
	0.0	3.0	6.0	9.0	12.0	15.0	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
66.0	0	0	0	0	0	0	0	1	1	1	2	2	2	3	3
65.0	0	0	0	1	1	1	2	2	2	3	3	4	4	5	5
64.0	1	1	2	2	3	3	4	5	5	6	7	7	7	8	8
63.0	2	3	4	4	6	7	7	8	8	9	10	10	11	11	12
62.0	4	6	7	8	9	10	10	11	12	13	14	13	13	13	12
61.0	8	9	10	11	13	14	14	14	13	13	12	11	11	10	10
60.0	11	13	13	14	14	13	12	11	11	10	9	9	8	7	7
59.0	14	14	13	12	11	10	9	8	7	7	6	6	5	4	4
58.0	12	11	10	9	8	7	6	5	4	4	3	3	2	2	1
57.0	9	8	7	6	5	4	3	2	1	1	1	0	0	0	0
56.0	5	4	4	2	1	1	0	0	0	0	0	0	0	0	0
55.0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

M-176

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 6.000 AVFLUX/SEC= 1.084E 01 ELECTRONS

	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0	75.0	78.0	81.0	84.0	87.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2
67.0	1	2	2	2	2	2	2	2	3	3	3	3	3	3	3
66.0	3	3	3	4	4	4	5	5	5	5	6	6	6	6	6
65.0	6	6	6	7	7	7	7	7	7	7	7	8	8	8	8
64.0	8	9	9	9	10	10	10	10	11	11	11	11	11	11	10
63.0	13	13	13	12	12	11	11	11	11	10	10	10	9	9	9
62.0	12	11	11	10	10	9	9	9	8	8	8	7	7	7	6
61.0	9	9	8	8	7	7	6	6	6	5	5	5	4	4	4
60.0	6	6	5	5	5	4	4	4	3	3	3	3	2	2	2
59.0	4	3	3	3	3	2	2	1	1	1	0	0	0	0	0
58.0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



ORIGINAL PAGE IS
OF POOR QUALITY
ORIGINAL PAGE IS
OF POOR QUALITY

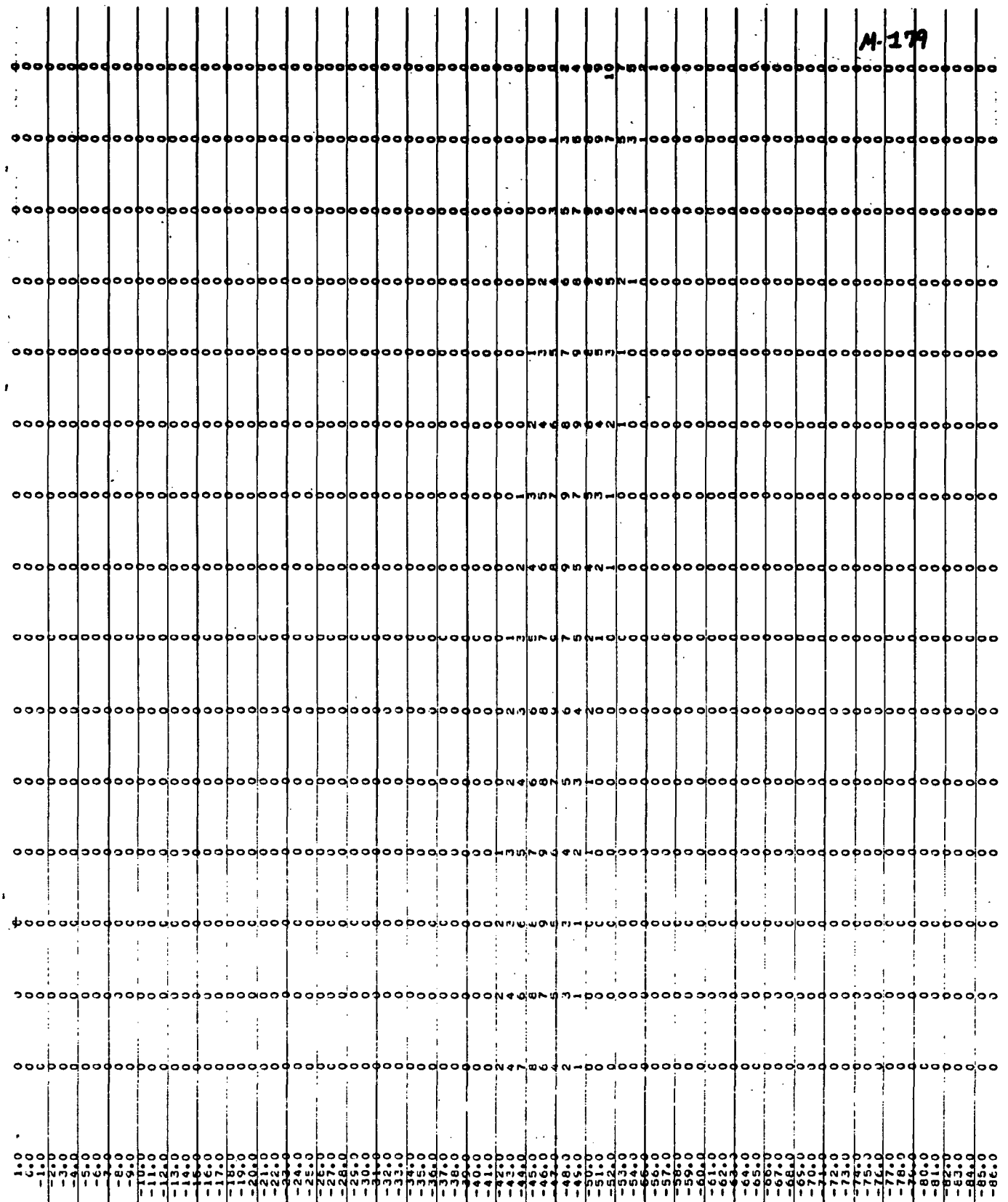
ALTITUDE= 900.0 ENERGY= 6.000 AVFLUX/SEC= 1.084E 01 ELECTRONS

	90.0	93.0	96.0	99.0	102.0	105.0	108.0	111.0	114.0	117.0	120.0	123.0	126.0	129.0	132.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
68.0	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3
67.0	3	4	4	4	4	4	5	5	5	5	5	5	5	5	5
66.0	6	6	6	6	6	6	6	7	7	7	7	7	7	8	8
65.0	8	8	9	9	9	10	10	10	10	10	10	10	10	10	11
64.0	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9
63.0	8	8	8	8	7	7	7	7	7	7	7	6	6	6	6
62.0	6	6	5	5	5	5	5	5	4	4	4	4	4	4	4
61.0	4	3	3	3	3	3	3	3	2	2	2	2	2	2	2
60.0	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

| | | |

ALTITUDE= 900.0 ENERGY= 6.000 AVFLUX/SEC= 1.084E 01 ELECTRONS

	135.0	138.0	141.0	144.0	147.0	150.0	153.0	156.0	159.0	162.0	165.0	168.0	171.0	174.0	177.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
68.0	3	3	2	3	3	3	2	2	2	2	2	1	1	1	0
67.0	6	6	6	6	6	6	5	5	5	4	3	3	3	2	2
66.0	8	8	8	8	8	8	8	7	7	7	7	6	6	5	4
65.0	11	11	11	11	11	13	13	13	11	10	10	9	8	7	7
64.0	9	9	9	9	10	10	10	11	11	11	12	12	13	11	10
63.0	6	6	7	7	7	7	8	8	9	9	10	10	11	12	12
62.0	4	4	4	4	4	5	5	5	6	6	7	8	8	9	10
61.0	2	2	2	2	2	2	3	3	3	4	4	5	5	6	7
60.0	0	0	0	0	0	0	0	0	1	1	1	2	3	4	4
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE: 900 KM

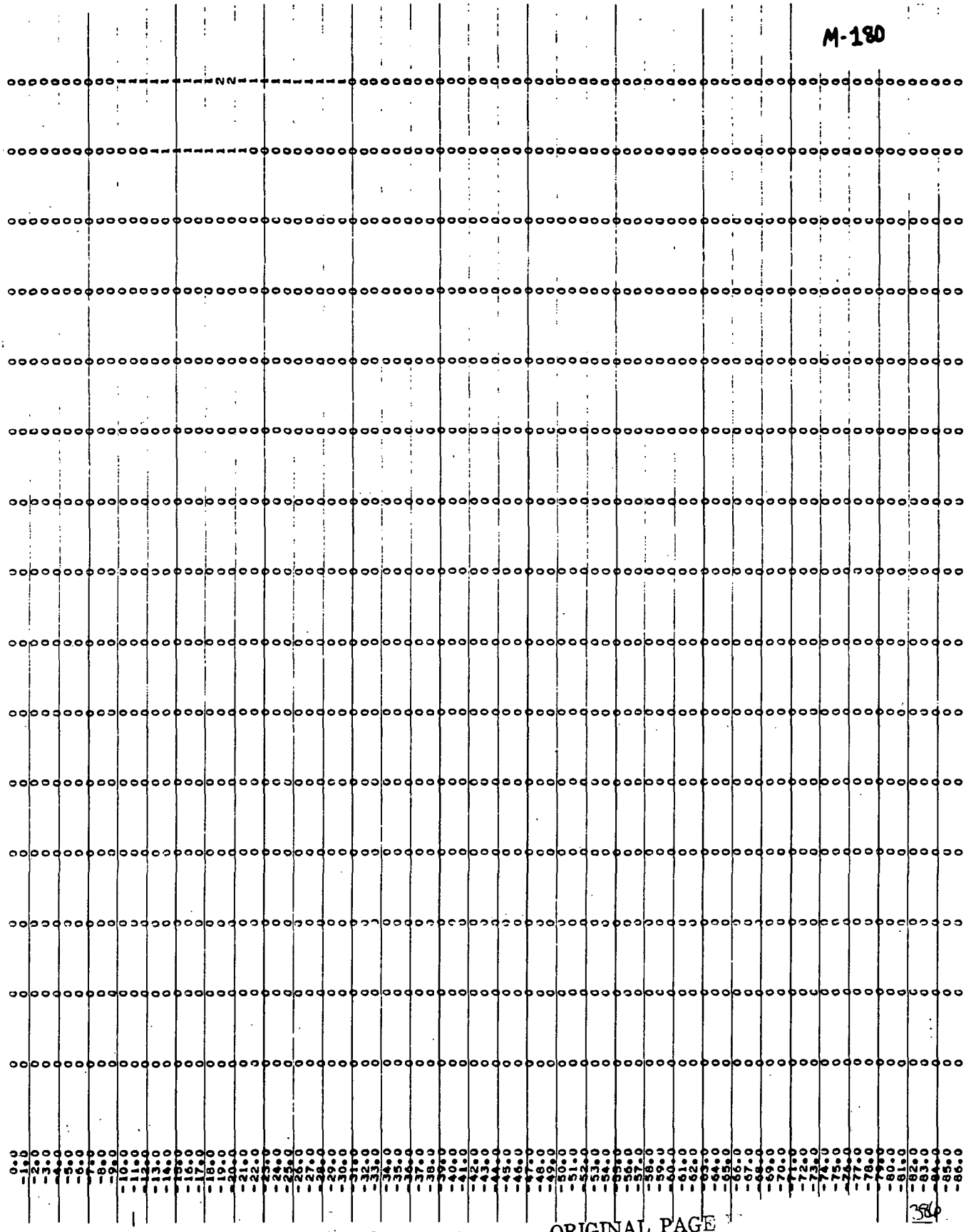
PROTONS: E > 5.0 MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MAX)

ORIGINAL PAGE IS
OF POOR QUALITY

485 ALTITUDE= 900.0 ENERGY= 5.000 AVFLUX/SEC= 3.358E 02 PROTONS

	-135.0	-132.0	-129.0	-126.0	-123.0	-120.0	-117.0	-114.0	-111.0	-108.0	-105.0	-102.0	-99.0	-96.0	-93.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



ORIGINAL PAGE
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 5.000 AVFLUX/SEC= 3.358E 02 PROTONS

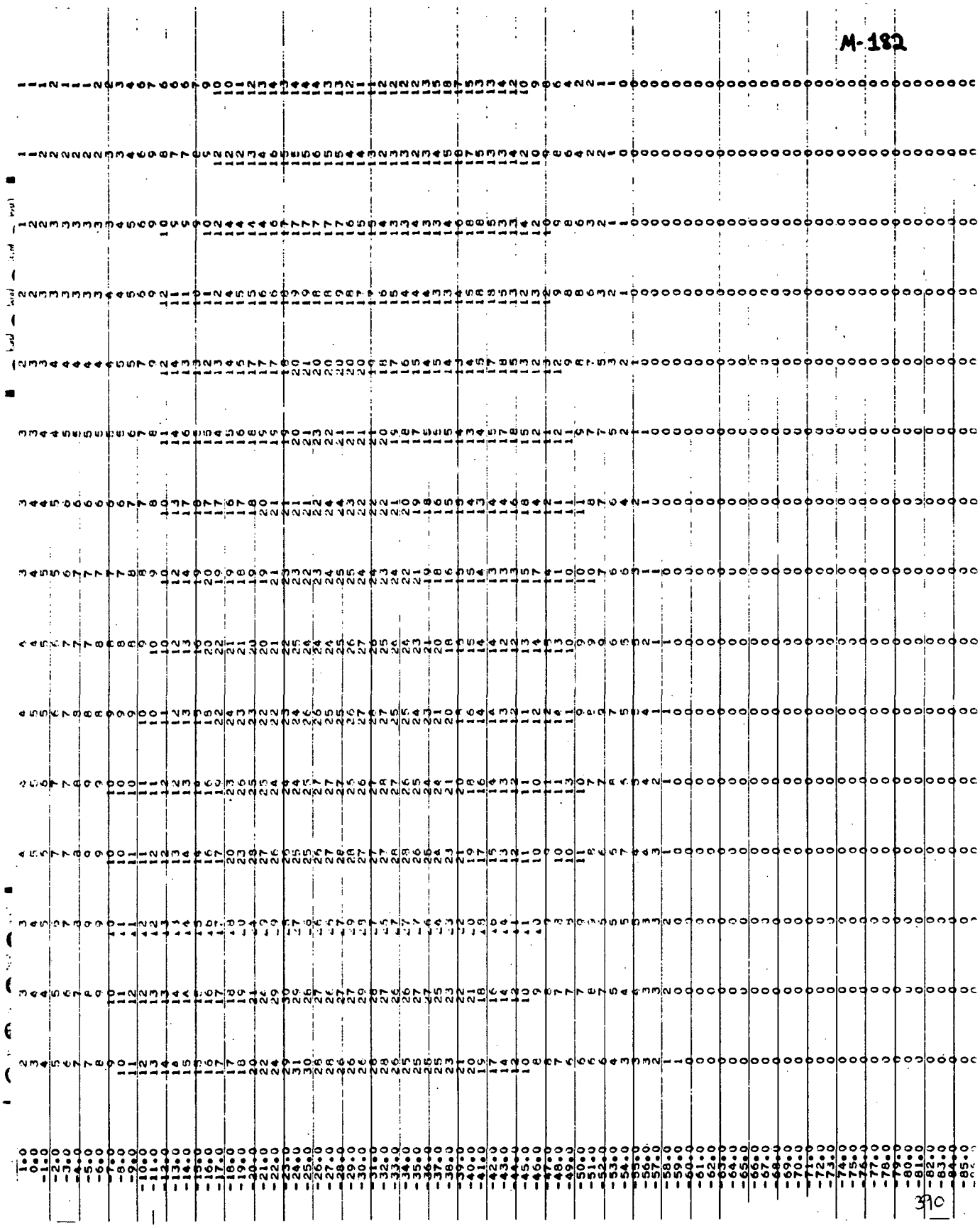
	-90.0	-87.0	-84.0	-81.0	-78.0	-75.0	-72.0	-69.0	-66.0	-63.0	-60.0	-57.0	-54.0	-51.0	-49.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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M-191

ALTITUDE= 900.0 ENERGY- 3.000 AVFLUX/SEC= 3.358E 02 PROTONS

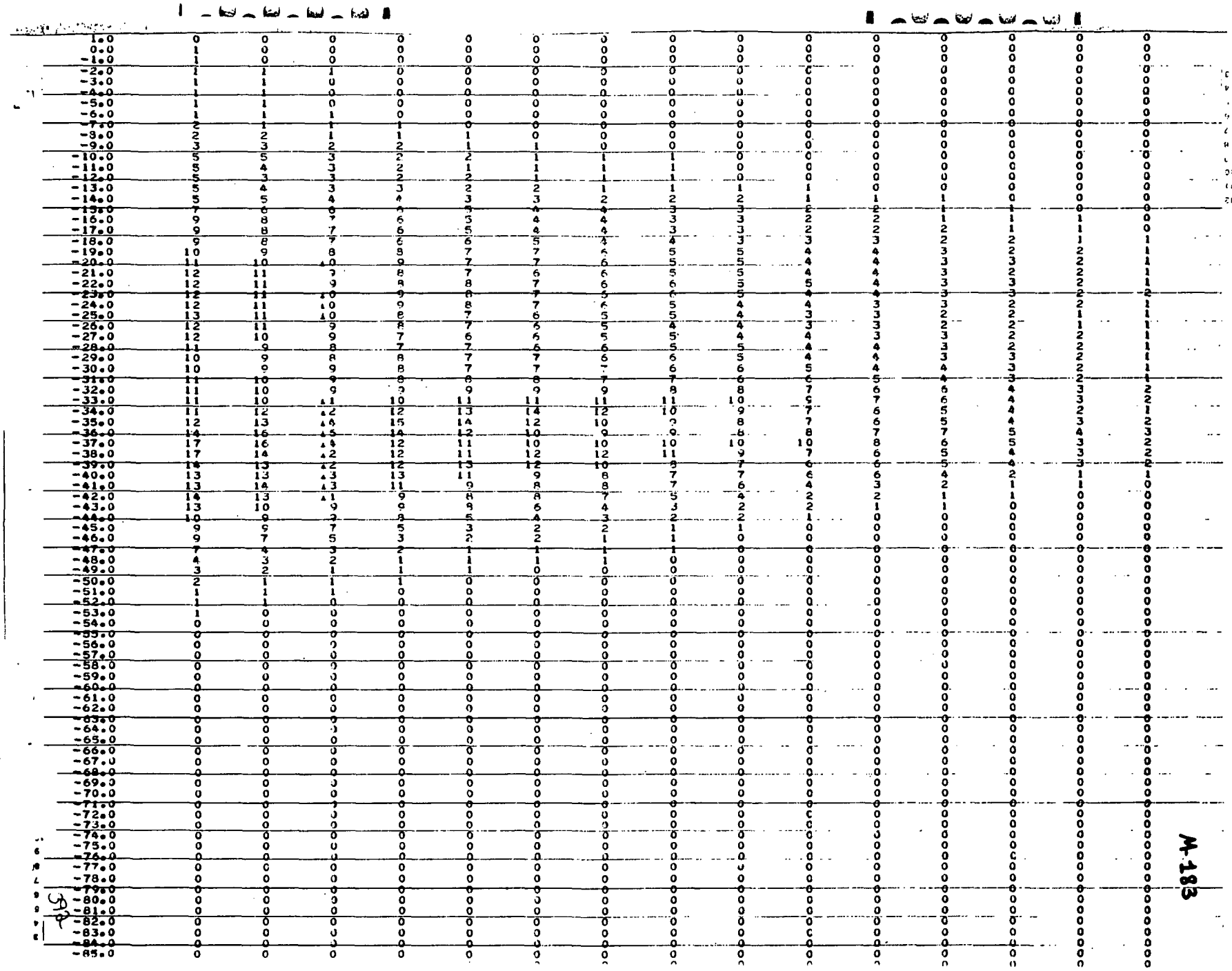
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17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0
7.0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0
6.0	1	1	1	1	1	2	1	1	1	1	1	0	0	0	0
5.0	1	1	1	1	2	2	2	1	1	1	1	1	0	0	0
4.0	1	1	1	2	2	2	2	2	2	2	1	1	1	0	0
3.0	1	2	2	3	3	3	2	2	2	2	2	1	1	1	0
2.0	2	2	3	3	4	3	3	3	3	2	2	2	1	1	1



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 5.000 AVFLUX/SEC= 3.358E 02 PROTONS

	0.0	3.0	6.0	9.0	12.0	15.0	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



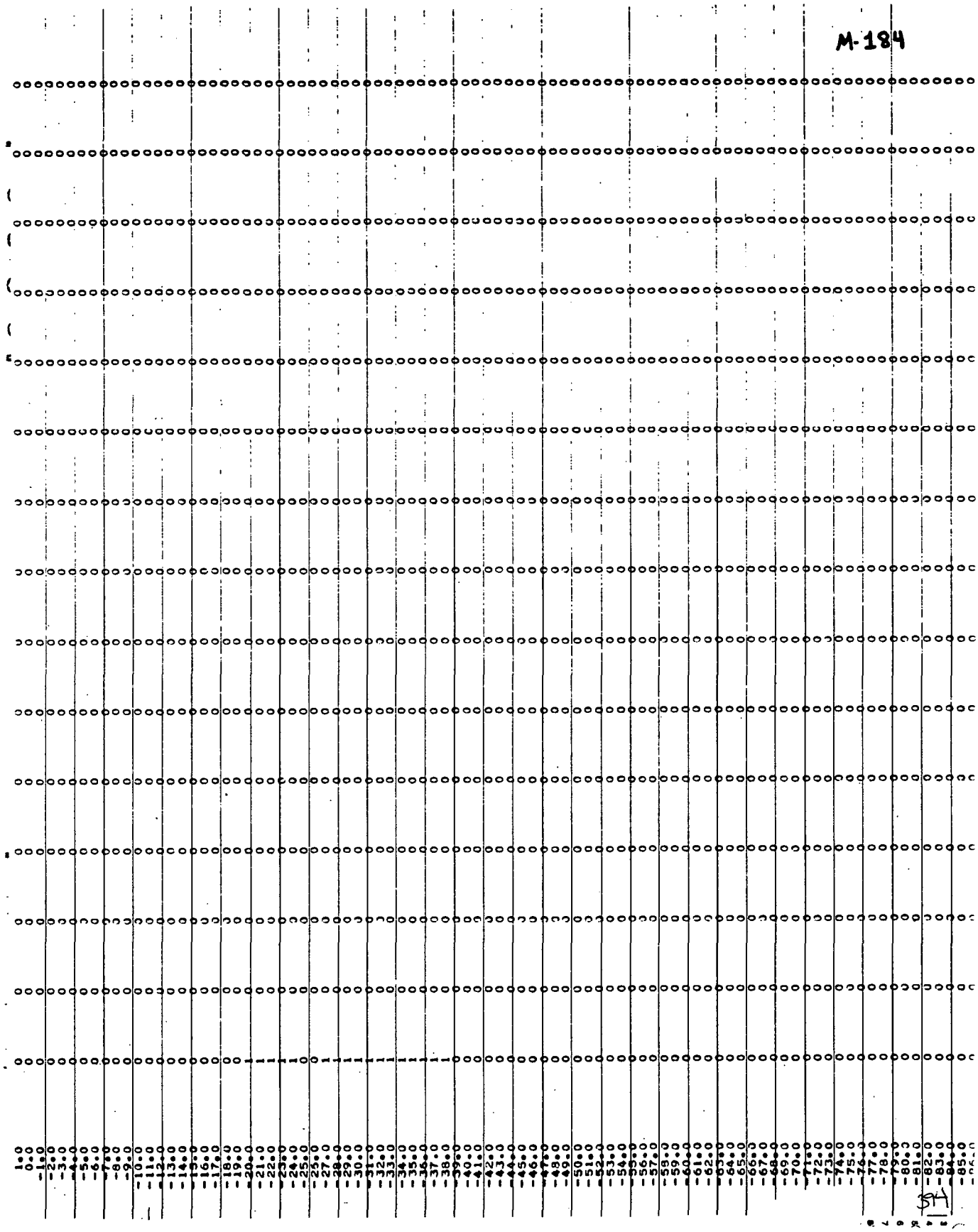
M-183

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ALTITUDE= 900.0 ENERGY= 5.000 AVFLUX/SEC= 3.358E 02 PROTONS

	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0	75.0	78.0	81.0	84.0	87.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

M-184



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE: 900 KM

PROTONS: E > 10.0 MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MAX)

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 10.000 AVFLUX/SEC= 2.520E 02 PROTONS

	-135.0	-132.0	-129.0	-126.0	-123.0	-120.0	-117.0	-114.0	-111.0	-108.0	-105.0	-102.0	-99.0	-96.0	-93.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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BEST AVAILABLE COPY
BEST AVAILABLE COPY

ALTITUDE= 900.0 ENERGY= 10.000 AVFLUX/SEC= 2.520E 02 PROTONS

	-90.0	-87.0	-84.0	-81.0	-78.0	-75.0	-72.0	-69.0	-66.0	-63.0	-60.0	-57.0	-54.0	-51.0	-48.0
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M-186

399

ORIGINAL PAGE
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 10.000 AVFLUX/SEC= 2.520E 02 PROTONS

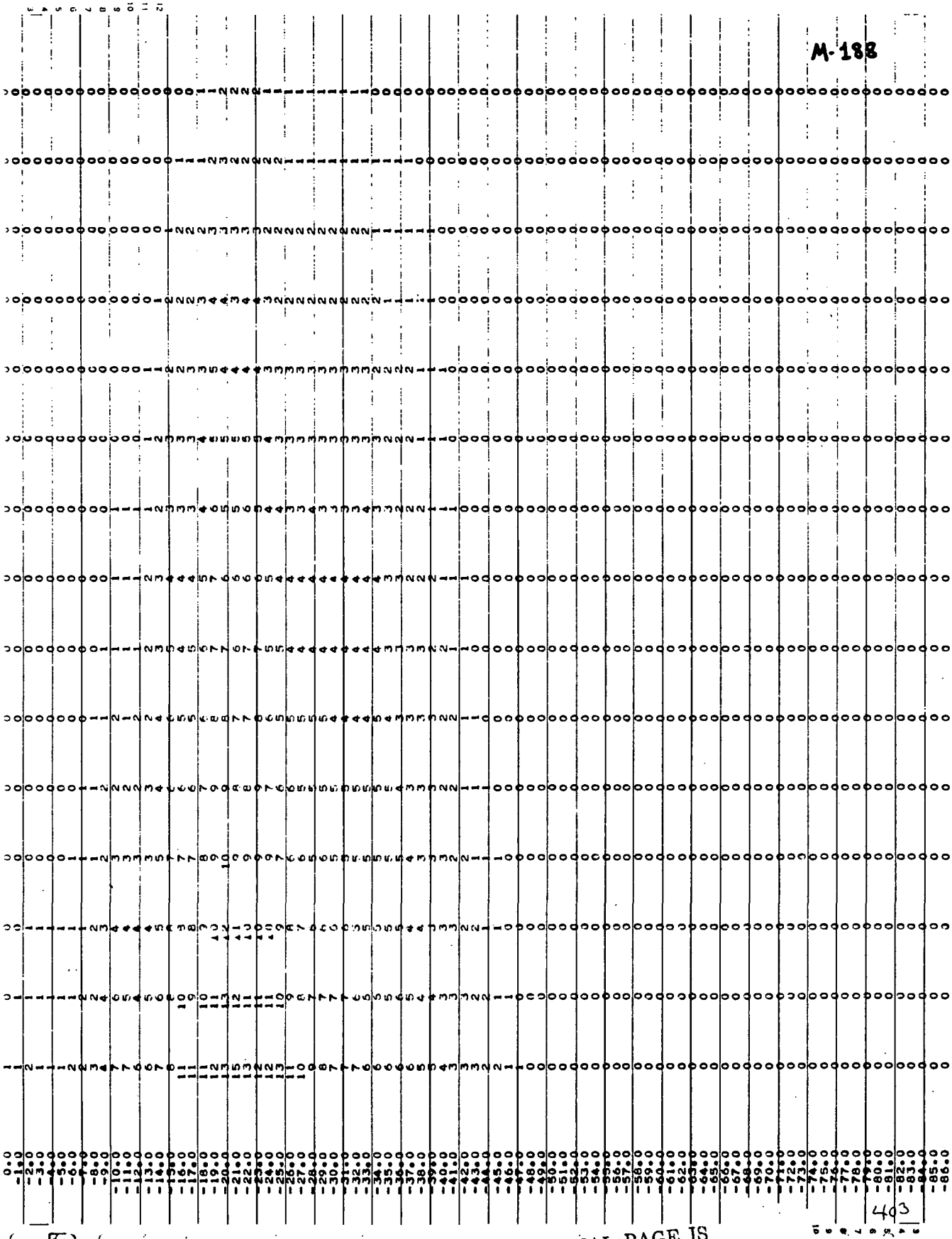
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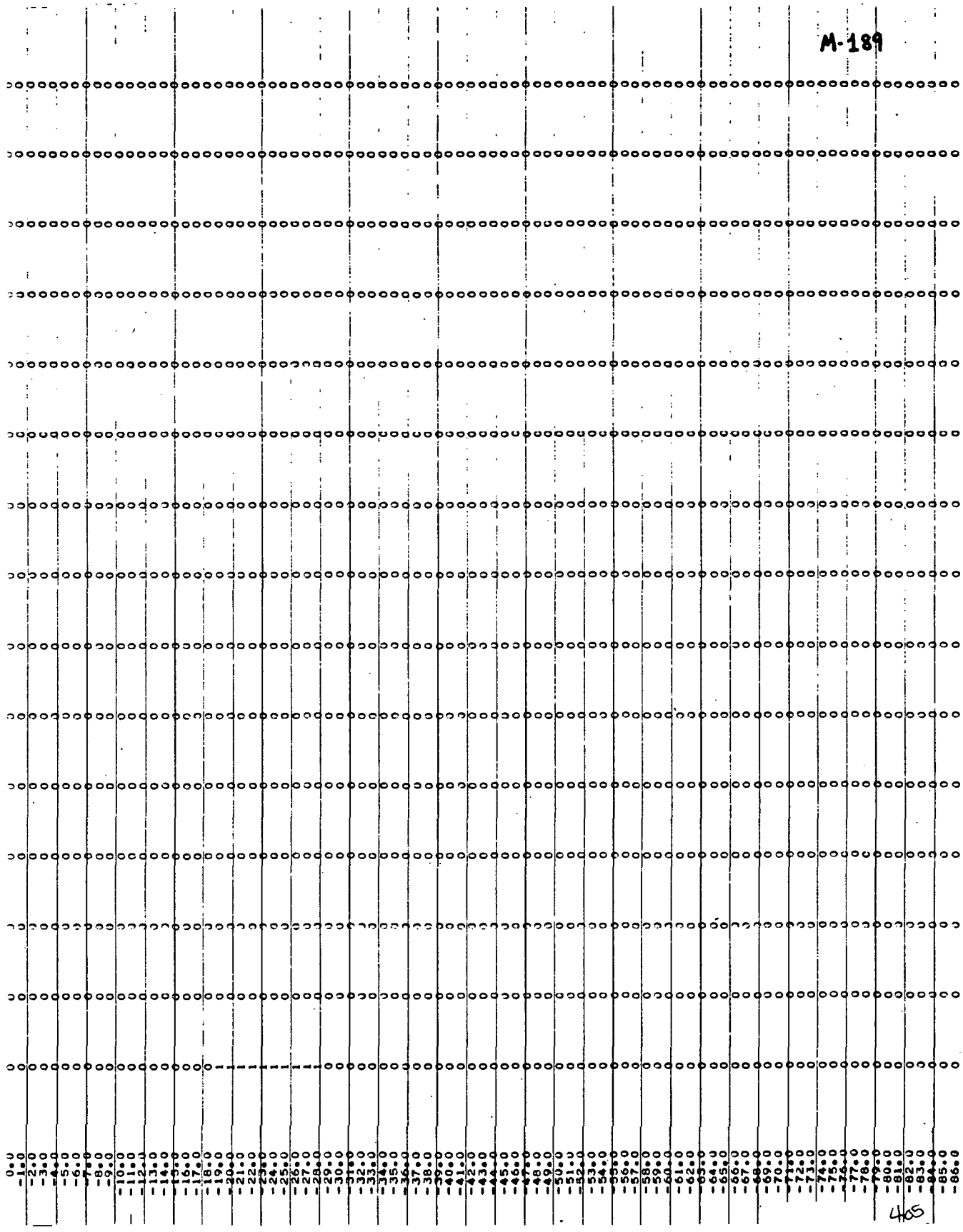
ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 10.000 AVFLUX/SEC= 2.520E 02 PROTONS

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22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0															



ORIGINAL PAGE IS
OF POOR QUALITY



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 10.000 AVFLUX/SEC= 2.520E 02 PROTONS

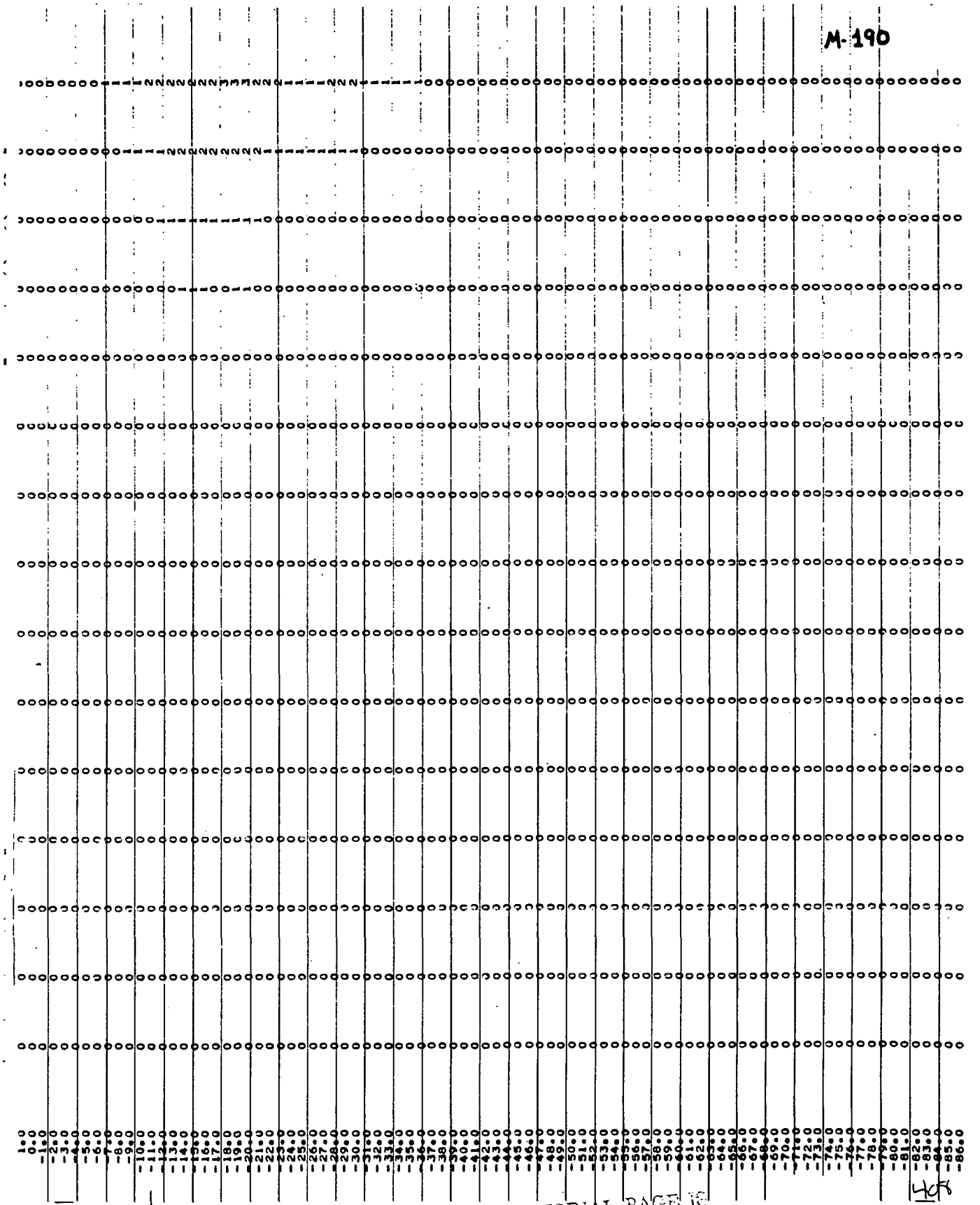
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81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ALTITUDE: 900 KM

PROTONS: E > 30.0 MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MAX)

ORIGINAL PAGE IS
OF POOR QUALITY

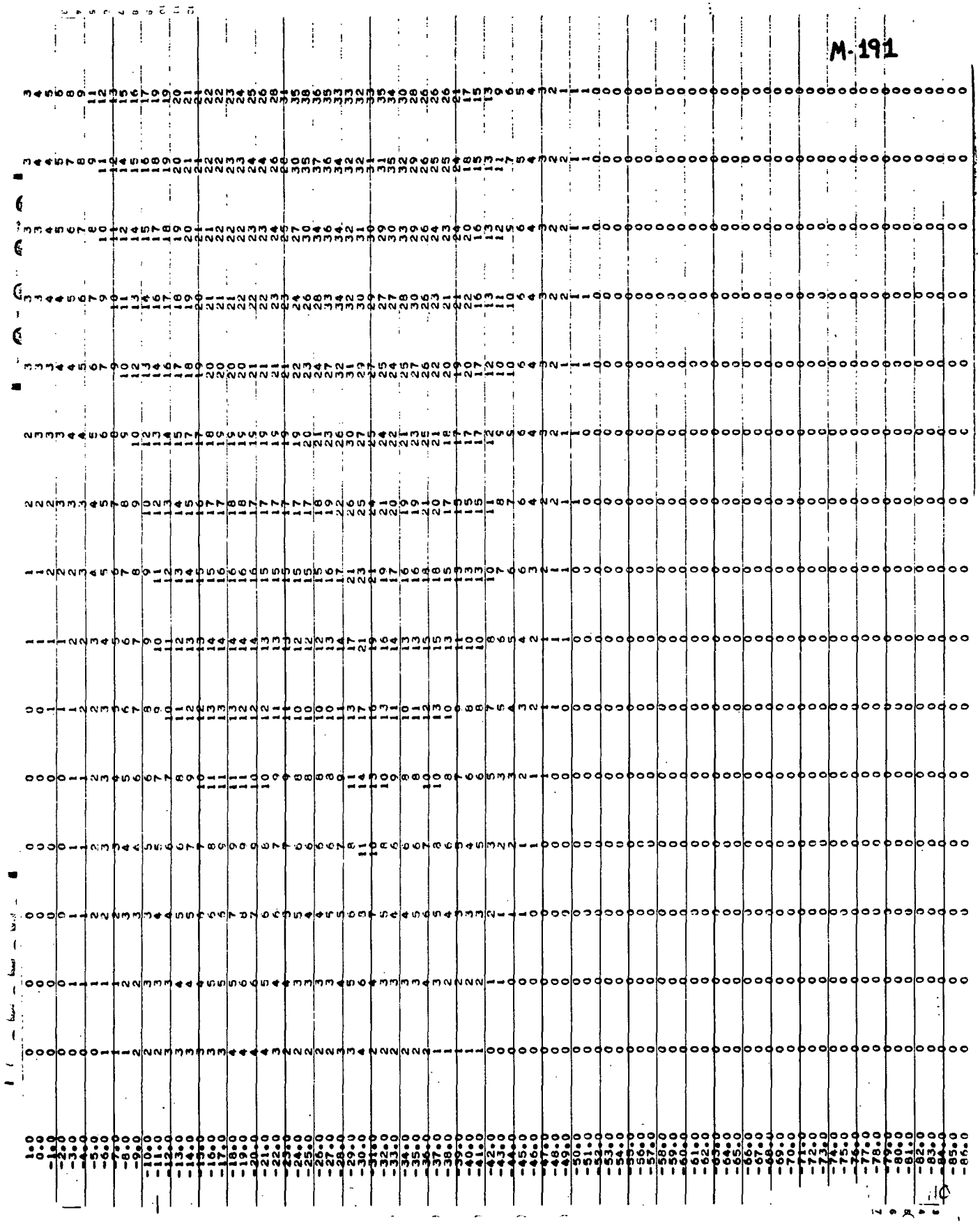


ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 30.000 AVFLUX/SEC= 1.731F 02 PROTONS

	-135.0	-132.0	-129.0	-126.0	-123.0	-120.0	-117.0	-114.0	-111.0	-108.0	-105.0	-102.0	-99.0	-96.0	-93.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

M-191



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 30.000 AVFLUX/SEC= 1.731E 02 PROTONS

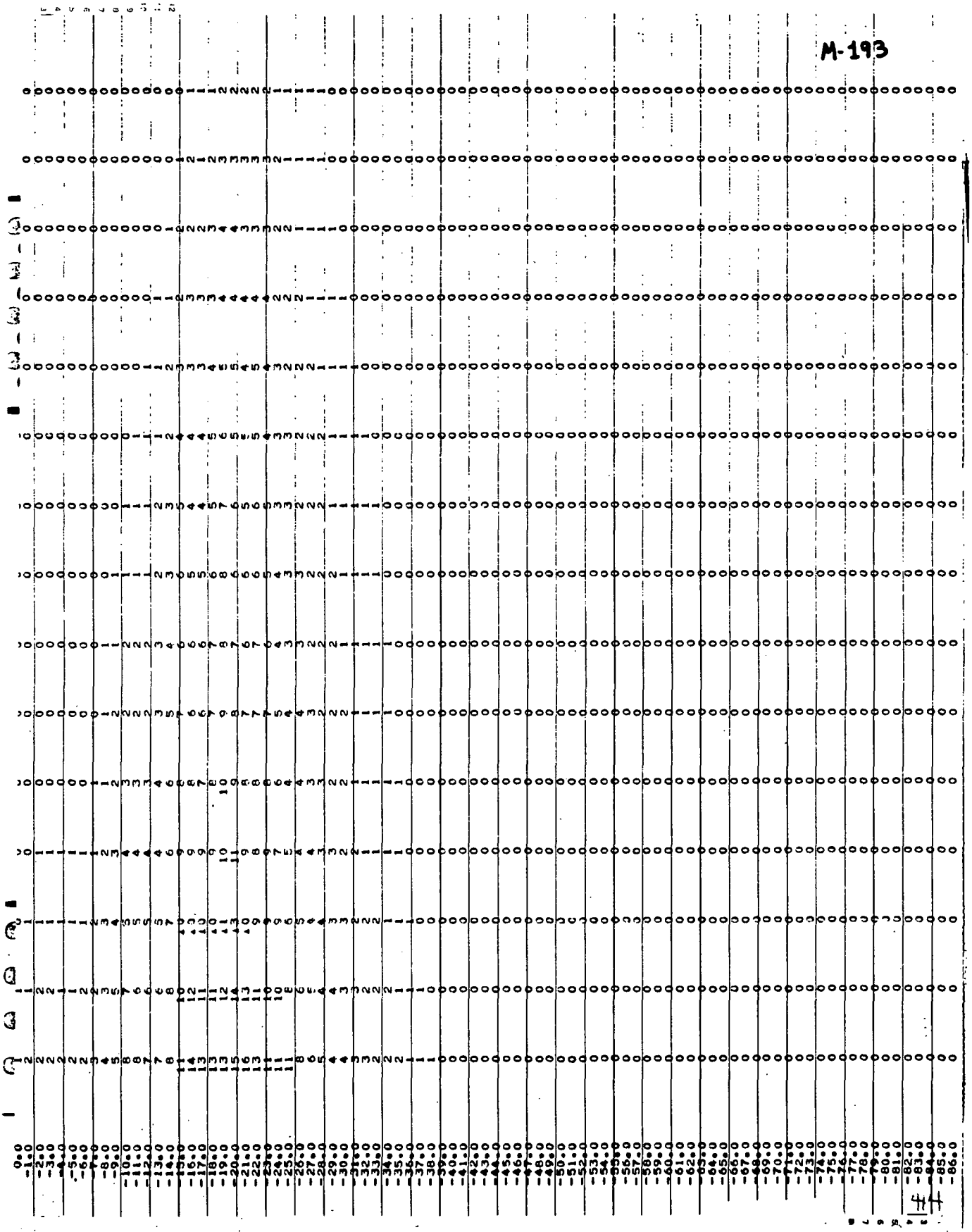
	-90.0	-87.0	-84.0	-81.0	-78.0	-75.0	-72.0	-69.0	-66.0	-63.0	-60.0	-57.0	-54.0	-51.0	-48.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
6.0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
5.0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	2
4.0	0	0	0	0	0	0	0	0	0	1	1	2	2	2	2
3.0	0	0	0	0	0	0	0	0	1	2	2	2	3	2	2
2.0	0	0	0	0	0	0	0	1	1	2	3	3	3	3	3

1.0	4	5	6	7	7	7	5	6	5	5	4	3	3	2	2
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-1.0	6	7	9	9	10	9	8	8	7	6	6	5	4	3	2
-2.0	8	9	10	11	11	10	10	9	8	8	7	6	5	4	3
-3.0	9	10	11	12	12	12	11	10	9	8	7	6	5	4	3
-4.0	10	11	12	13	13	13	12	11	9	8	7	6	4	3	3
-5.0	12	13	14	14	14	13	12	11	10	8	7	5	4	3	3
-6.0	13	14	15	15	14	13	12	11	9	8	7	5	4	4	3
-7.0	15	15	15	15	15	14	12	11	9	8	7	6	5	4	3
-8.0	16	16	16	16	15	14	12	11	10	8	7	6	5	5	4
-9.0	17	17	17	16	15	14	13	11	10	9	8	7	7	7	6
-10.0	18	18	17	17	16	14	13	12	11	10	10	9	9	9	9
-11.0	19	19	18	17	16	15	14	13	12	12	12	13	14	13	10
-12.0	20	19	19	18	17	15	15	14	14	15	16	17	14	11	9
-13.0	20	20	19	18	17	16	16	16	17	20	19	16	13	11	9
-14.0	21	20	20	19	18	18	18	19	23	21	18	15	12	11	9
-15.0	21	21	20	20	20	20	22	25	23	21	17	15	13	12	11
-16.0	22	22	21	21	22	23	27	26	23	20	17	15	14	14	14
-17.0	22	22	22	23	25	28	28	25	22	20	18	17	17	19	16
-18.0	23	23	24	25	29	31	27	25	22	20	20	21	20	17	15
-19.0	24	25	27	30	33	30	27	24	22	22	23	22	19	16	14
-20.0	26	27	30	35	32	29	27	25	24	26	24	20	18	16	15
-21.0	28	31	36	34	31	29	26	26	28	26	22	20	18	18	18
-22.0	31	36	36	33	31	29	27	29	28	25	21	20	20	21	16
-23.0	36	37	34	32	31	29	30	31	26	23	22	21	22	17	13
-24.0	38	36	33	32	30	31	34	29	25	23	23	23	18	14	12
-25.0	36	34	33	32	32	35	31	27	25	24	24	19	15	13	12
-26.0	35	34	33	33	35	33	29	26	25	26	21	16	14	13	11
-27.0	34	34	33	35	35	31	28	26	27	23	18	15	14	11	8
-28.0	33	33	35	37	32	29	27	28	24	19	16	15	11	8	6
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-30.0	34	37	35	31	29	29	28	23	18	16	13	9	7	6	5
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-32.0	35	32	30	29	30	26	21	18	15	11	8	6	5	4	3
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-34.0	29	28	29	28	23	19	17	13	9	7	6	4	4	3	2
-35.0	28	28	33	24	20	18	14	10	8	6	5	4	3	2	2
-36.0	28	28	24	20	18	15	11	8	6	5	4	3	2	2	2
-37.0	27	24	20	18	16	12	9	7	5	4	3	2	2	2	1
-38.0	23	19	17	17	12	9	7	5	4	4	3	2	2	1	1
-39.0	18	17	16	12	9	7	6	4	4	3	2	2	1	1	1
-40.0	16	16	12	9	7	6	5	4	3	2	2	1	1	1	0
-41.0	15	12	9	7	6	5	4	3	2	2	1	1	1	0	0
-42.0	11	8	7	6	5	4	3	2	2	1	1	1	0	0	0
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-44.0	6	6	4	4	3	2	2	2	1	1	0	0	0	0	0
-45.0	4	4	3	3	2	2	1	1	1	0	0	0	0	0	0
-46.0	3	3	3	2	2	1	1	1	0	0	0	0	0	0	0
-47.0	3	2	2	2	1	1	1	0	0	0	0	0	0	0	0
-48.0	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0
-49.0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
-50.0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
-51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-82.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-83.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-84.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-85.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 30.000 AVFLUX/SEC= 1.731E 02 PROTONS

	-45.0	-42.0	-39.0	-36.0	-33.0	-30.0	-27.0	-24.0	-21.0	-18.0	-15.0	-12.0	-9.0	-6.0	-3.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
9.0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0
8.0	1	1	1	1	1	2	2	1	1	1	1	0	0	0	0
7.0	1	1	1	1	2	2	2	2	2	1	1	1	0	0	0
6.0	1	1	1	2	2	3	2	2	2	2	2	1	1	0	0
5.0	2	2	2	3	4	4	3	3	3	2	2	2	1	0	0
4.0	2	2	3	4	5	4	4	3	3	3	3	2	1	1	0
3.0	2	3	4	5	6	5	4	4	4	4	3	3	2	2	1
2.0	3	4	5	6	6	6	5	5	5	4	4	3	2	2	1

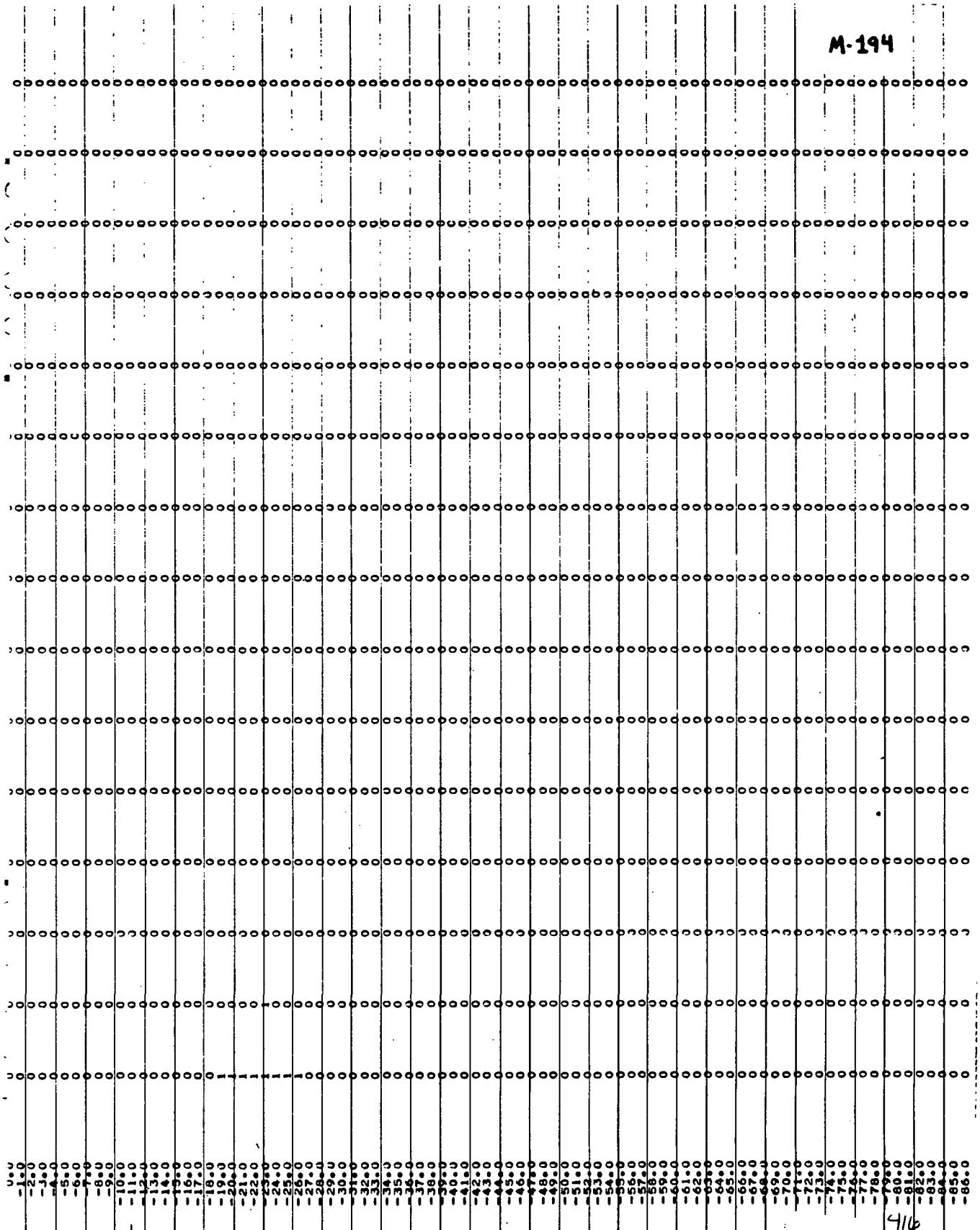


ORIGINAL PAGE IS
OF POOR QUALITY

4/3

ALTITUDE= 900.0 ENERGY= 30.000 AVFLUX/SEC= 1.731E 02 PROTONS

	0.0	3.0	6.0	9.0	12.0	15.0	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 30.000 AVFLUX/SEC= 1.731E 02 PROTONS

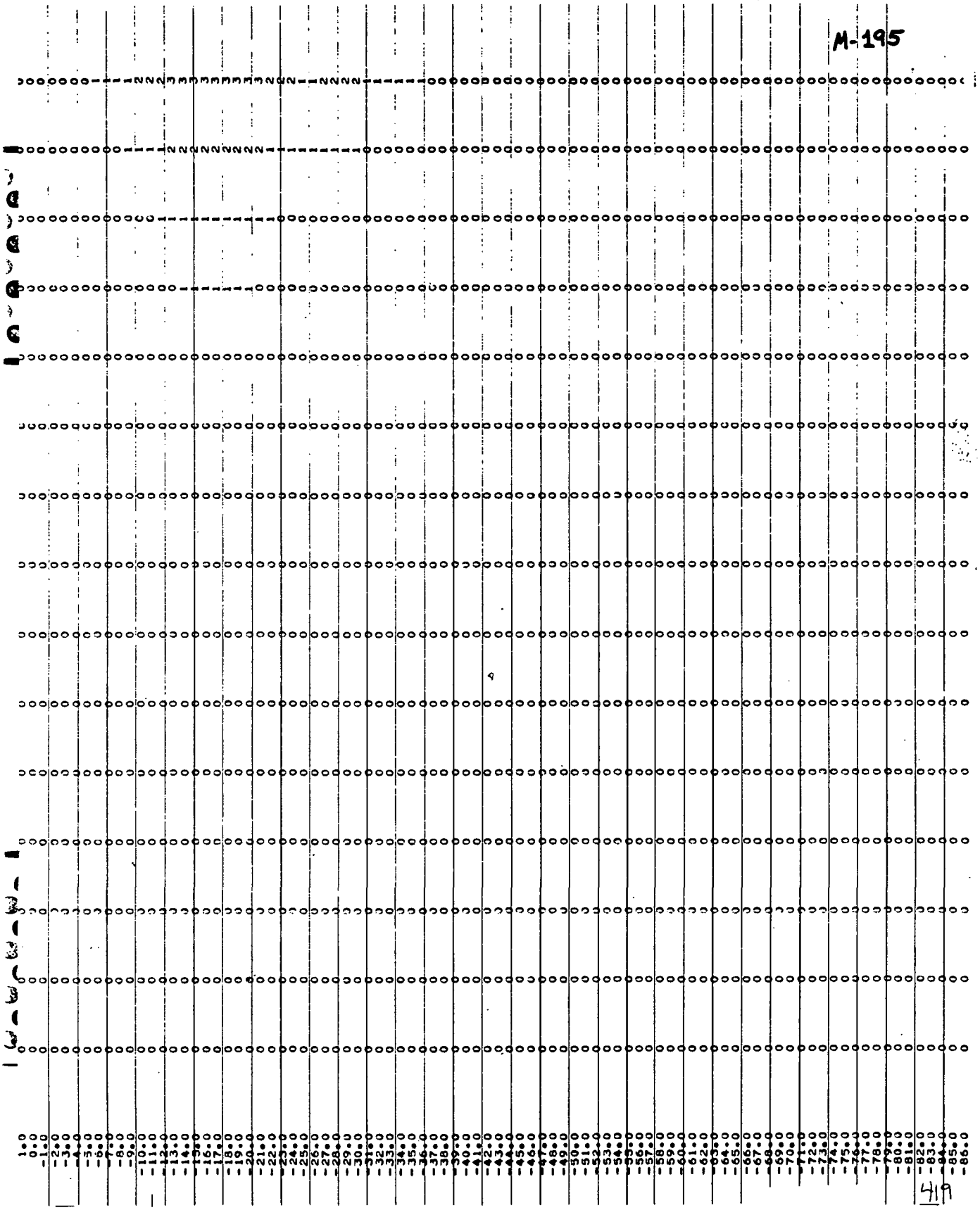
	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0	75.0	78.0	81.0	84.0	87.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ALTITUDE: 900 KM

PROTONS: E > 50.0 MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MAX)

ORIGINAL PAGE IS
OF POOR QUALITY

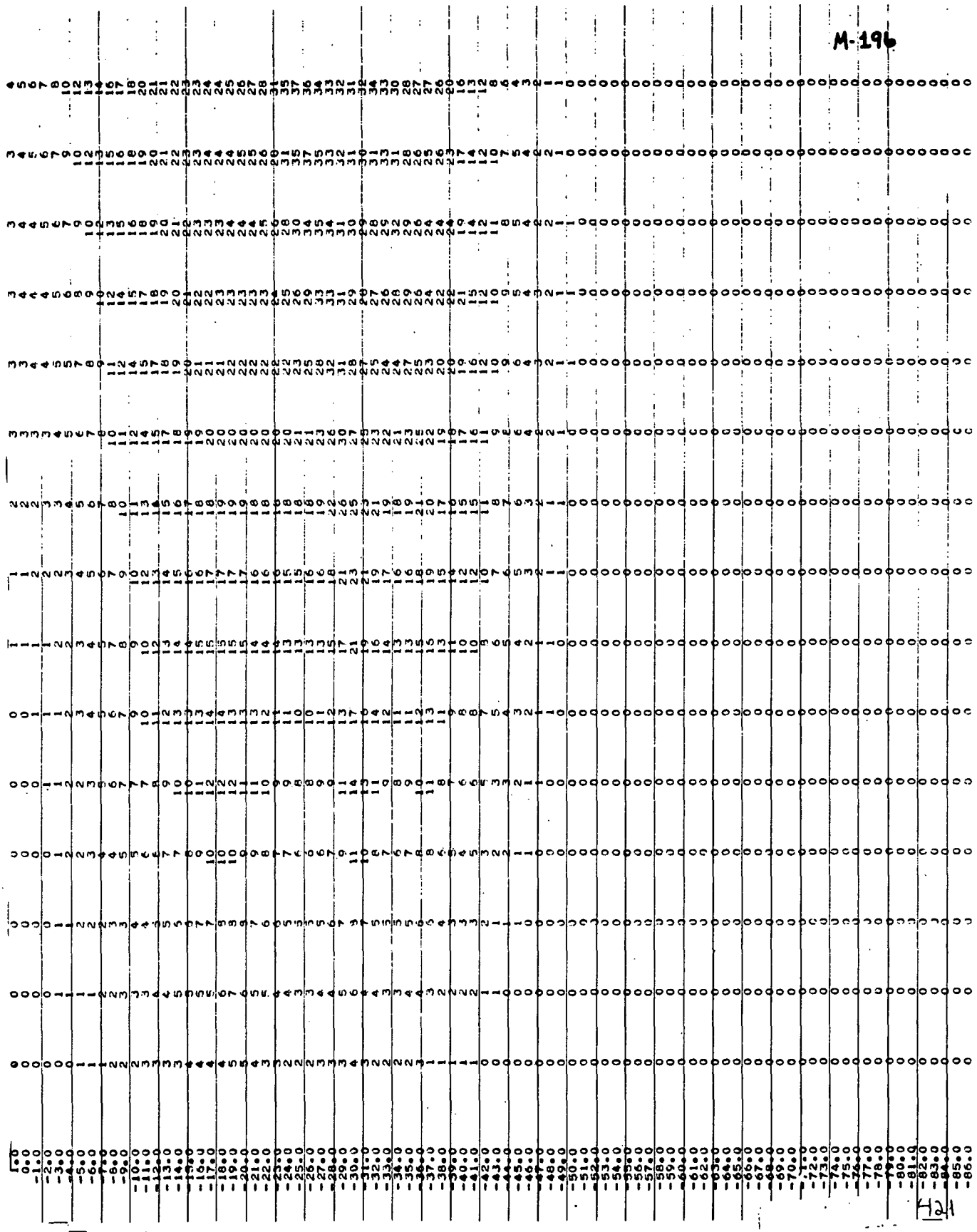


ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 50.000 AVFLUX/SEC= 1.416E 02 PROTONS

	-135.0	-132.0	-129.0	-126.0	-123.0	-120.0	-117.0	-114.0	-111.0	-108.0	-105.0	-102.0	-99.0	-96.0	-93.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

M-196



H21

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 50.000 AVFLUX/SEC= 1.416E 02 PROTONS

	-90.0	-87.0	-84.0	-81.0	-78.0	-75.0	-72.0	-69.0	-66.0	-63.0	-60.0	-57.0	-54.0	-51.0	-48.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
6.0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2
5.0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	2
4.0	0	0	0	0	0	0	0	0	0	1	1	2	2	2	2
3.0	0	0	0	0	0	0	0	0	1	2	2	3	3	3	2
2.0	0	0	0	0	0	0	0	1	2	2	3	3	3	3	3

1.0	4	5	7	8	8	7	7	6	6	5	4	4	3	2	2
0.0	5	7	8	9	9	9	8	7	7	6	5	4	4	3	2
-1.0	7	8	9	10	11	10	9	9	8	7	6	5	4	3	3
-2.0	8	10	11	12	12	11	11	10	9	8	8	7	6	5	4
-3.0	10	11	12	13	13	13	12	11	10	9	8	8	6	5	4
-4.0	11	12	13	14	14	13	13	11	10	9	9	7	6	5	4
-5.0	13	14	15	15	15	14	13	12	10	9	9	7	6	5	4
-6.0	14	15	16	16	15	14	13	12	10	9	9	7	6	5	4
-7.0	16	16	16	16	16	15	13	12	10	9	9	7	6	5	4
-8.0	17	17	17	17	16	15	13	12	10	9	9	8	7	6	5
-9.0	18	18	18	17	16	15	13	12	11	10	9	8	7	6	5
-10.0	19	19	19	18	17	15	14	12	11	10	10	10	9	10	9
-11.0	20	20	19	18	17	15	14	13	12	12	12	13	14	13	10
-12.0	21	20	20	19	18	16	15	15	14	15	16	17	14	12	9
-13.0	21	21	20	19	18	17	17	16	18	20	19	16	13	11	9
-14.0	22	21	21	20	19	19	18	20	23	21	18	15	13	11	10
-15.0	22	22	21	20	20	20	22	25	25	20	17	15	13	12	11
-16.0	23	23	22	22	22	23	27	26	23	20	17	15	14	14	13
-17.0	23	23	23	23	25	28	28	25	22	19	18	17	17	19	16
-18.0	24	24	25	26	29	31	27	25	22	20	20	21	20	18	15
-19.0	25	26	27	30	33	29	26	24	22	22	23	22	19	16	15
-20.0	26	28	31	35	32	28	26	24	24	25	24	21	18	17	15
-21.0	28	31	36	34	30	28	25	25	27	26	23	20	19	18	17
-22.0	31	36	36	32	30	28	27	28	28	24	22	21	20	19	15
-23.0	36	36	34	31	30	28	29	31	26	24	22	22	21	16	13
-24.0	37	35	33	31	30	30	33	28	26	24	24	22	17	13	11
-25.0	36	34	32	31	31	34	30	27	25	25	24	18	14	12	11
-26.0	34	33	32	32	34	33	28	26	26	26	19	15	13	12	10
-27.0	33	33	32	34	34	30	28	27	29	21	16	14	13	10	7
-28.0	32	32	34	36	32	29	27	29	23	18	15	13	10	7	6
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-31.0	35	34	31	30	29	31	25	18	15	13	9	7	5	4	3
-32.0	34	31	30	29	31	25	19	16	14	10	7	6	4	3	2
-33.0	31	30	29	30	27	20	17	15	11	8	6	4	3	2	2
-34.0	29	29	30	28	21	17	16	12	8	6	5	3	3	2	1
-35.0	28	29	29	22	18	16	13	9	7	5	4	3	2	1	1
-36.0	28	29	23	19	16	14	10	7	5	4	3	2	1	1	1
-37.0	28	22	19	16	14	10	7	6	4	3	2	1	1	1	0
-38.0	21	18	16	15	11	8	6	4	3	2	2	1	1	0	0
-39.0	17	15	15	11	8	6	5	3	3	2	1	1	0	0	0
-40.0	15	14	11	8	5	5	3	3	2	1	1	0	0	0	0
-41.0	14	10	9	6	5	4	3	2	1	1	1	0	0	0	0
-42.0	9	7	6	5	4	3	2	1	1	1	0	0	0	0	0
-43.0	7	6	5	3	3	2	1	1	1	0	0	0	0	0	0
-44.0	5	4	3	3	2	1	1	1	0	0	0	0	0	0	0
-45.0	4	3	2	2	1	1	1	0	0	0	0	0	0	0	0
-46.0	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0
-47.0	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0
-48.0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
-49.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-82.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-83.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-84.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-85.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-86.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

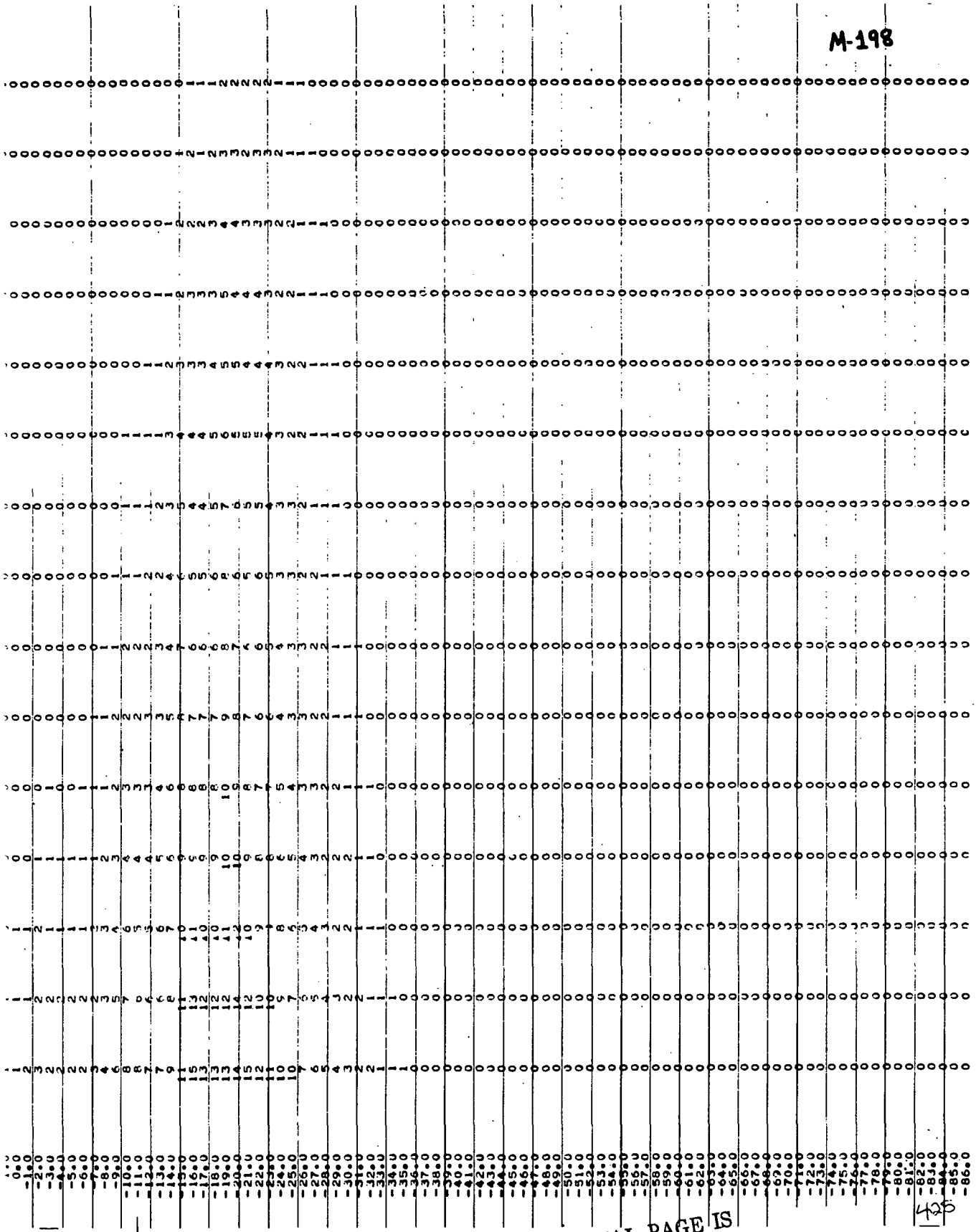
M-197

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 50.000 AVFLUX/SEC= 1.416E 02 PROTONS

	-45.0	-42.0	-39.0	-36.0	-33.0	-30.0	-27.0	-24.0	-21.0	-18.0	-15.0	-12.0	-9.0	-6.0	-3.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
9.0	1	1	0	0	1	1	2	1	1	1	1	0	0	0	0
8.0	1	1	1	1	1	2	2	1	1	1	1	0	0	0	0
7.0	1	1	1	1	2	3	2	2	2	2	1	1	0	0	0
6.0	1	1	2	2	3	3	3	2	2	2	2	1	1	0	0
5.0	2	2	2	3	4	4	3	3	3	3	2	2	1	1	0
4.0	2	2	3	4	5	5	4	4	4	3	3	3	2	1	0
3.0	3	3	4	5	5	5	5	5	4	4	3	3	2	2	1
2.0	3	4	5	6	7	6	6	5	5	4	4	3	3	2	2

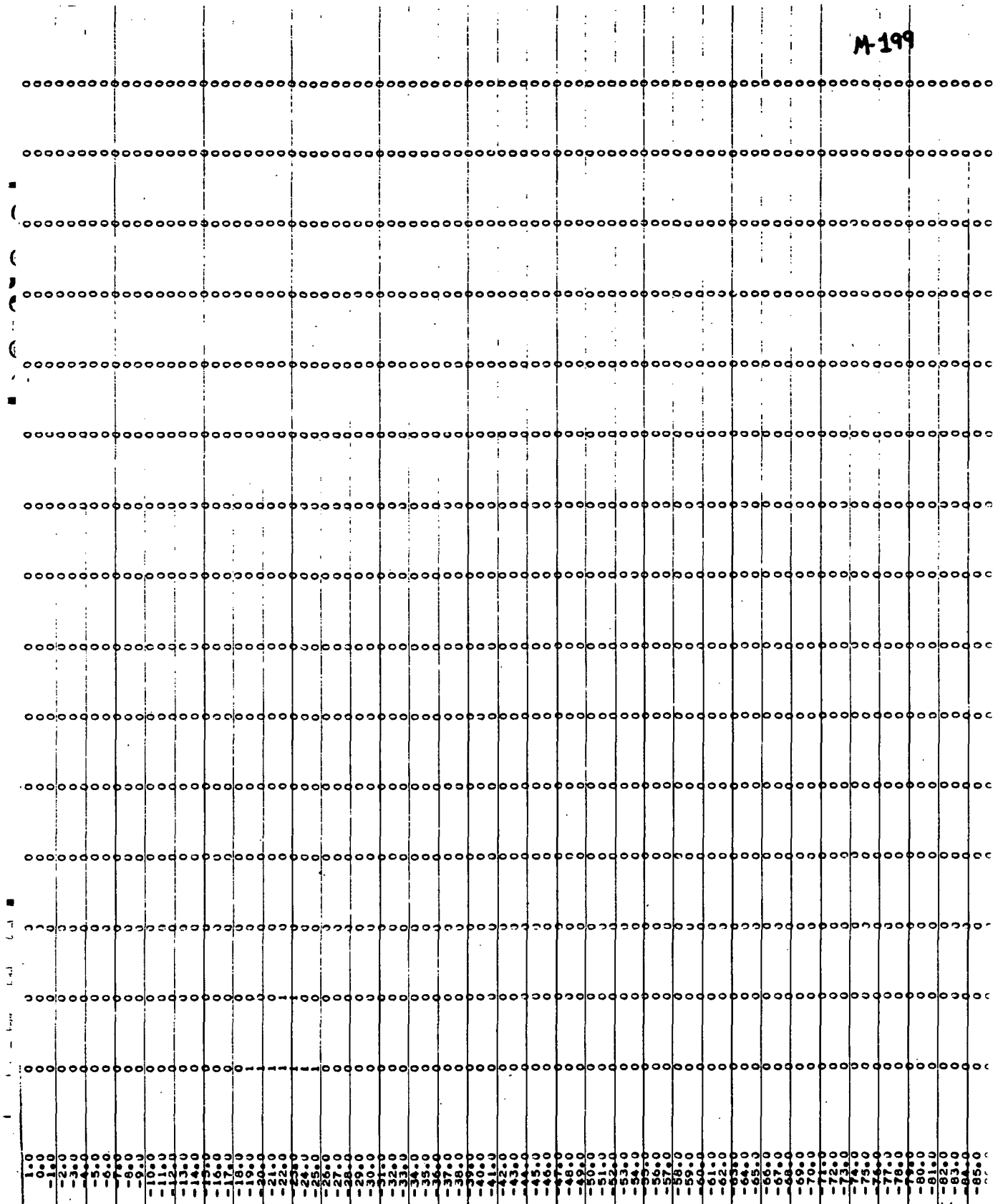
M-198



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 50.000 AVFLUX/SEC= 1.416E 02 PROTONS

	0.0	3.0	6.0	9.0	12.0	15.0	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY= 50.000 AVFLUX/SEC= 1.416E 02 PROTONS

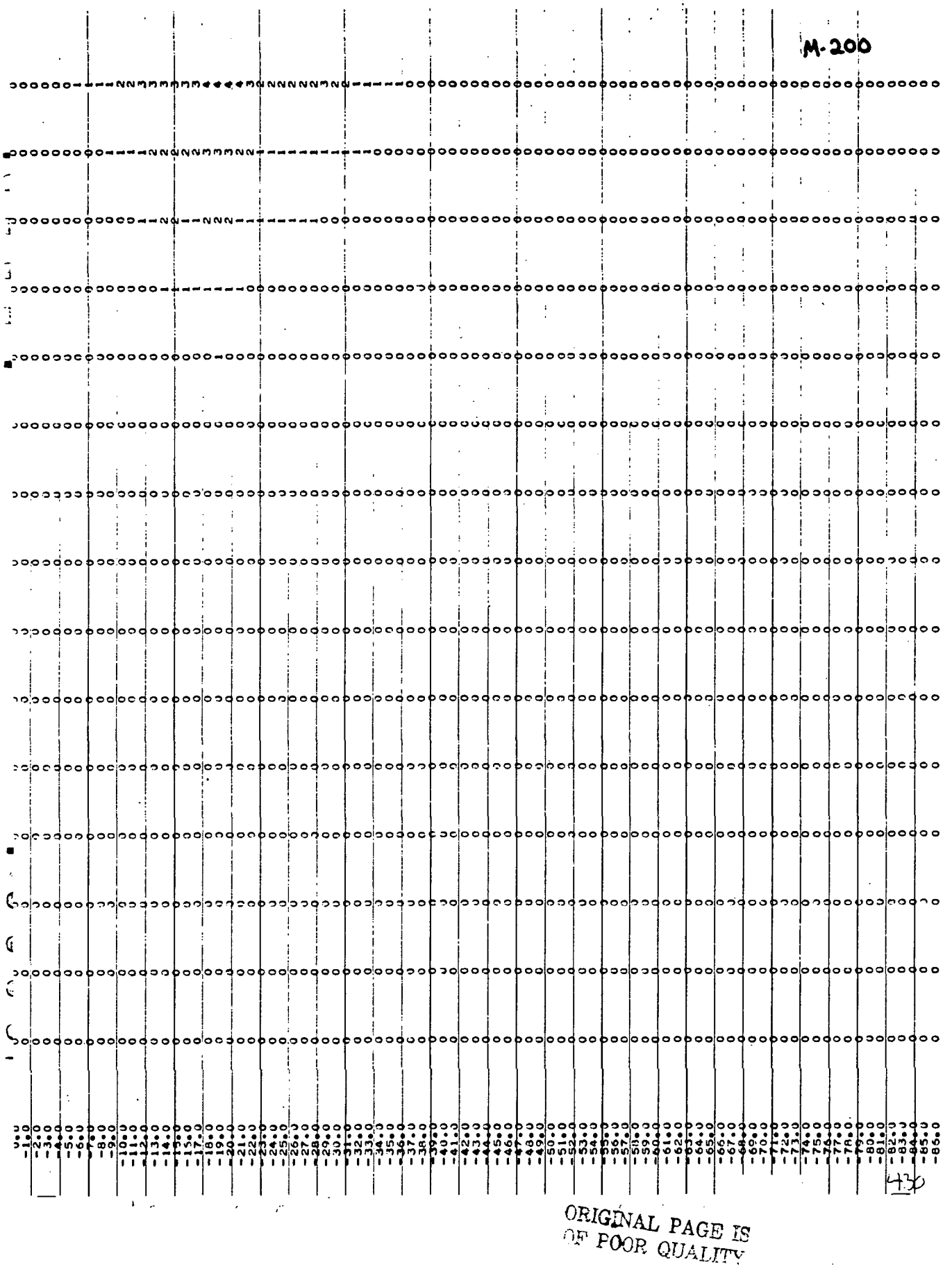
	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0	75.0	78.0	81.0	84.0	87.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ALTITUDE: 900 KM

PROTONS: E > 100. MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MAX)

ORIGINAL PAGE IS
OF POOR QUALITY



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY=100.000 AVFLUX/SEC= 8.782E 01 PROTONS

	-135.0	-132.0	-129.0	-126.0	-123.0	-120.0	-117.0	-114.0	-111.0	-108.0	-105.0	-102.0	-99.0	-96.0	-93.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

M-201

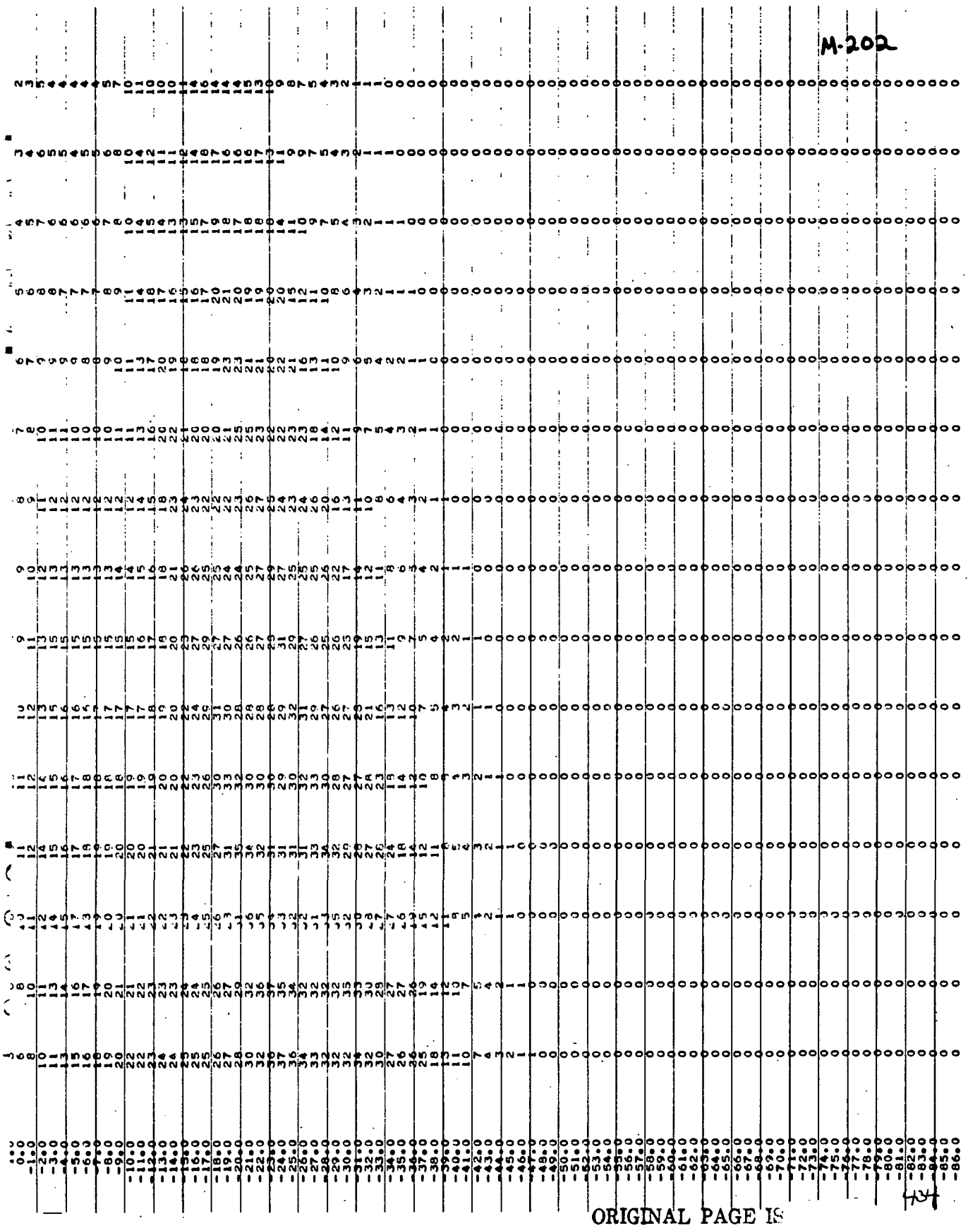
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-1.0	0	0	0	0	0	1	1	1	2	3	4	5	5	6	7	8	8
-2.0	0	1	1	1	1	1	1	2	3	3	4	5	5	6	7	8	10
-3.0	0	1	1	1	1	1	2	2	3	4	5	5	6	7	8	10	11
-4.0	1	1	2	2	2	2	3	3	4	5	5	6	7	8	10	11	13
-5.0	1	1	2	3	3	3	3	4	5	5	6	8	9	10	12	13	15
-6.0	1	2	3	4	4	4	5	5	6	7	8	9	10	12	13	15	17
-7.0	1	2	3	4	5	6	6	7	7	8	9	11	12	14	15	17	18
-8.0	2	3	3	5	6	7	7	8	9	10	11	12	14	15	17	18	19
-9.0	2	3	4	5	6	8	9	9	10	11	13	14	15	17	18	19	21
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-21.0	5	7	8	10	12	14	16	18	20	20	22	24	25	26	27	28	30
-22.0	4	6	8	9	12	14	16	18	20	20	22	24	25	26	28	30	32
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-27.0	3	4	5	7	10	12	14	17	20	20	24	28	33	36	35	34	32
-28.0	3	5	6	8	10	13	16	19	20	23	27	32	34	34	33	32	31
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-31.0	3	5	8	11	13	17	19	21	24	25	25	27	28	29	30	31	33
-32.0	2	4	6	8	11	14	17	19	22	24	25	27	28	30	30	33	32
-33.0	2	4	5	7	10	12	15	17	20	22	24	26	29	32	32	32	28
-34.0	2	4	5	7	9	11	14	16	19	21	24	27	31	30	28	28	26
-35.0	3	4	5	7	9	11	14	16	19	22	26	28	28	27	26	25	25
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-37.0	2	3	5	8	10	13	15	18	19	20	21	22	23	23	25	25	23
-38.0	1	2	4	6	8	11	13	15	16	18	19	20	22	24	23	23	21
-39.0	1	2	3	5	7	9	11	13	15	17	18	20	22	20	16	16	16
-40.0	1	2	3	4	6	8	10	12	13	15	18	19	16	14	12	12	12
-41.0	1	2	3	4	6	7	9	11	13	14	14	13	12	11	10	10	10
-42.0	0	1	2	3	4	6	7	8	9	9	10	9	9	9	9	9	9
-43.0	0	1	1	2	3	4	5	6	7	7	8	8	8	7	6	6	6
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-45.0	0	0	0	1	2	3	3	4	4	4	4	4	3	3	2	2	2
-46.0	0	0	0	0	1	1	2	2	2	2	2	2	2	2	1	1	1
-47.0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1
-48.0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0
-49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-82.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-83.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-84.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-85.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-86.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY=100.000 AVFLUX/SEC= 8.782E 01 PROTONS

	-90.0	-87.0	-84.0	-81.0	-78.0	-75.0	-72.0	-69.0	-66.0	-63.0	-60.0	-57.0	-54.0	-51.0	-48.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
7.0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
6.0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	2
5.0	0	0	0	0	0	0	0	0	0	1	1	2	3	2	2
4.0	0	0	0	0	0	0	0	0	1	1	2	3	3	3	3
3.0	0	0	0	0	0	0	0	1	1	2	3	3	3	3	3
2.0	0	0	0	0	0	0	1	1	2	3	3	4	3	3	4

M-202



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY-100.000 AVFLUX/SEC= 8.782E 01 PROTONS

	-45.0	-42.0	-39.0	-36.0	-33.0	-30.0	-27.0	-24.0	-21.0	-18.0	-15.0	-12.0	-9.0	-6.0	-3.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0
10.0	0	1	0	0	0	1	1	1	1	1	0	0	0	0	0
9.0	1	1	1	1	1	2	2	2	1	1	1	0	0	0	0
8.0	1	1	1	1	2	2	2	2	2	1	1	0	0	0	0
7.0	1	1	1	2	2	4	3	2	2	2	2	1	0	0	0
6.0	2	2	2	3	4	4	3	3	3	3	2	1	1	0	0
5.0	2	2	3	4	5	5	4	4	3	3	3	2	1	0	0
4.0	3	3	4	5	5	5	5	4	4	4	3	3	2	1	0
3.0	3	4	5	6	8	6	6	5	5	5	4	3	3	2	1
2.0	4	5	6	8	9	7	7	6	6	5	5	4	3	2	2

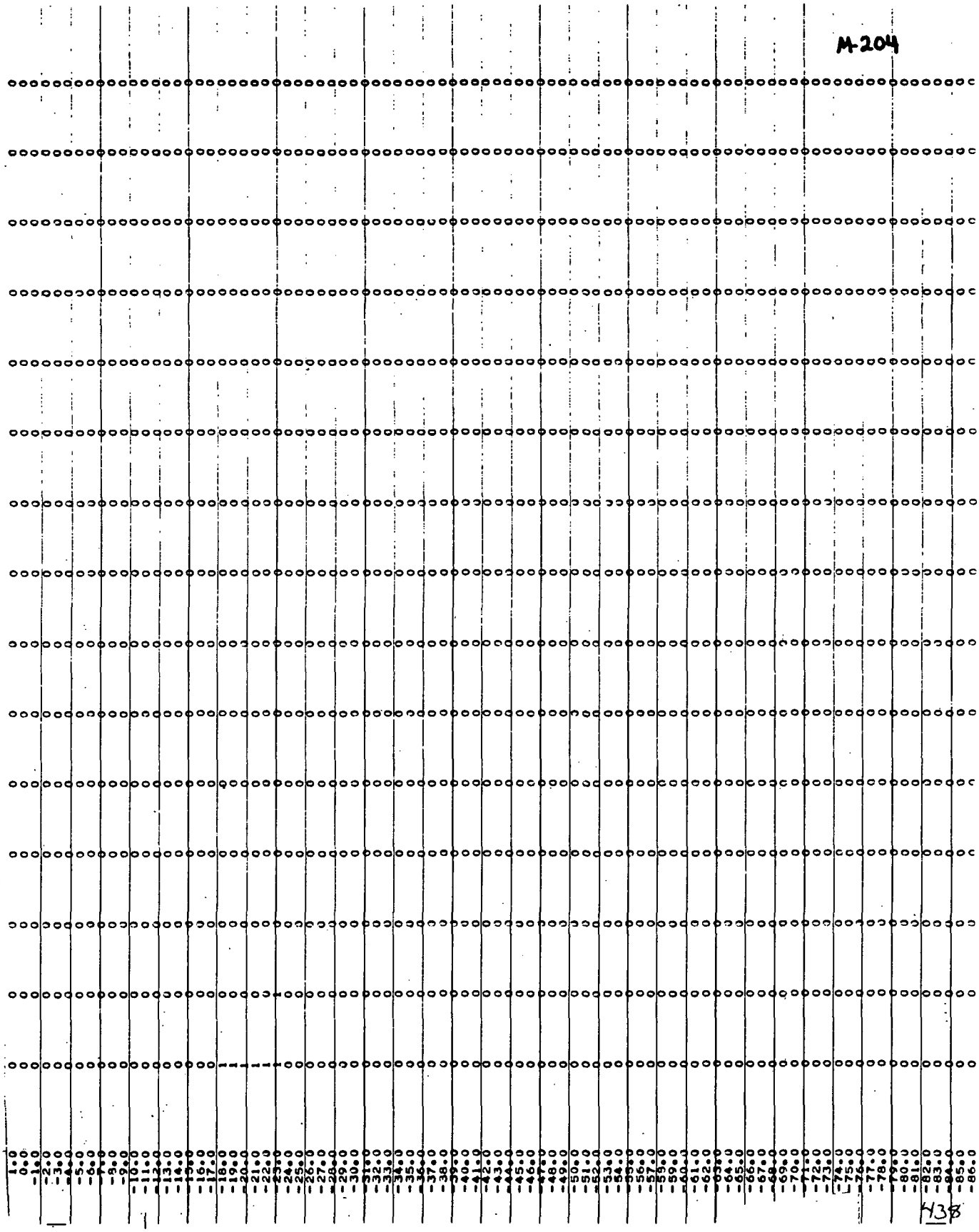
0.0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
-1.0	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
-2.0	4	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0
-3.0	3	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0
-4.0	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0
-5.0	3	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0
-6.0	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0
-7.0	3	3	2	2	1	1	1	0	0	0	0	0	0	0	0	0
-8.0	5	4	3	2	2	1	1	1	0	0	0	0	0	0	0	0
-9.0	6	5	5	4	3	2	2	1	1	0	0	0	0	0	0	0
-10.0	9	8	6	5	4	3	2	2	1	1	1	0	0	0	0	0
-11.0	9	7	5	4	3	3	2	2	1	1	1	0	0	0	0	0
-12.0	8	6	5	4	4	3	2	2	2	1	1	1	0	0	0	0
-13.0	8	7	6	5	4	4	3	3	2	2	1	1	1	0	0	0
-14.0	9	8	7	7	6	5	5	4	3	3	2	2	1	1	0	0
-15.0	11	11	10	9	8	8	7	6	5	4	4	3	2	1	0	0
-16.0	14	12	10	9	8	7	6	5	5	4	4	3	3	2	1	0
-17.0	13	11	10	9	7	6	6	5	4	4	3	3	2	2	1	0
-18.0	13	11	10	9	8	7	6	6	5	4	4	3	3	2	1	0
-19.0	12	11	10	9	9	8	8	7	6	6	5	4	4	3	2	0
-20.0	13	12	11	9	8	7	6	5	5	4	4	4	3	3	2	0
-21.0	13	10	8	7	6	6	5	4	4	4	3	3	3	2	2	0
-22.0	10	8	7	6	6	5	5	4	4	4	3	3	3	2	2	0
-23.0	8	7	7	6	5	5	4	4	3	3	3	3	2	2	2	0
-24.0	8	7	6	5	4	3	3	2	2	2	2	1	1	1	1	0
-25.0	7	5	4	3	3	2	2	1	1	1	1	1	1	1	0	0
-26.0	5	4	3	2	2	2	1	1	1	1	1	0	0	0	0	0
-27.0	4	3	2	2	1	1	1	1	0	0	0	0	0	0	0	0
-28.0	3	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0
-29.0	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
-30.0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
-31.0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-32.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-82.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-83.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-84.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-85.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-86.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

M-203

436

ALTITUDE= 900.0 ENERGY=100.000 AVFLUX/SEC= 8.782E 01 PROTONS

	0.0	3.0	6.0	9.0	12.0	15.0	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY=100.000 AVFLUX/SEC= 8.782E 01 PROTONS

	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0	75.0	78.0	81.0	84.0	87.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

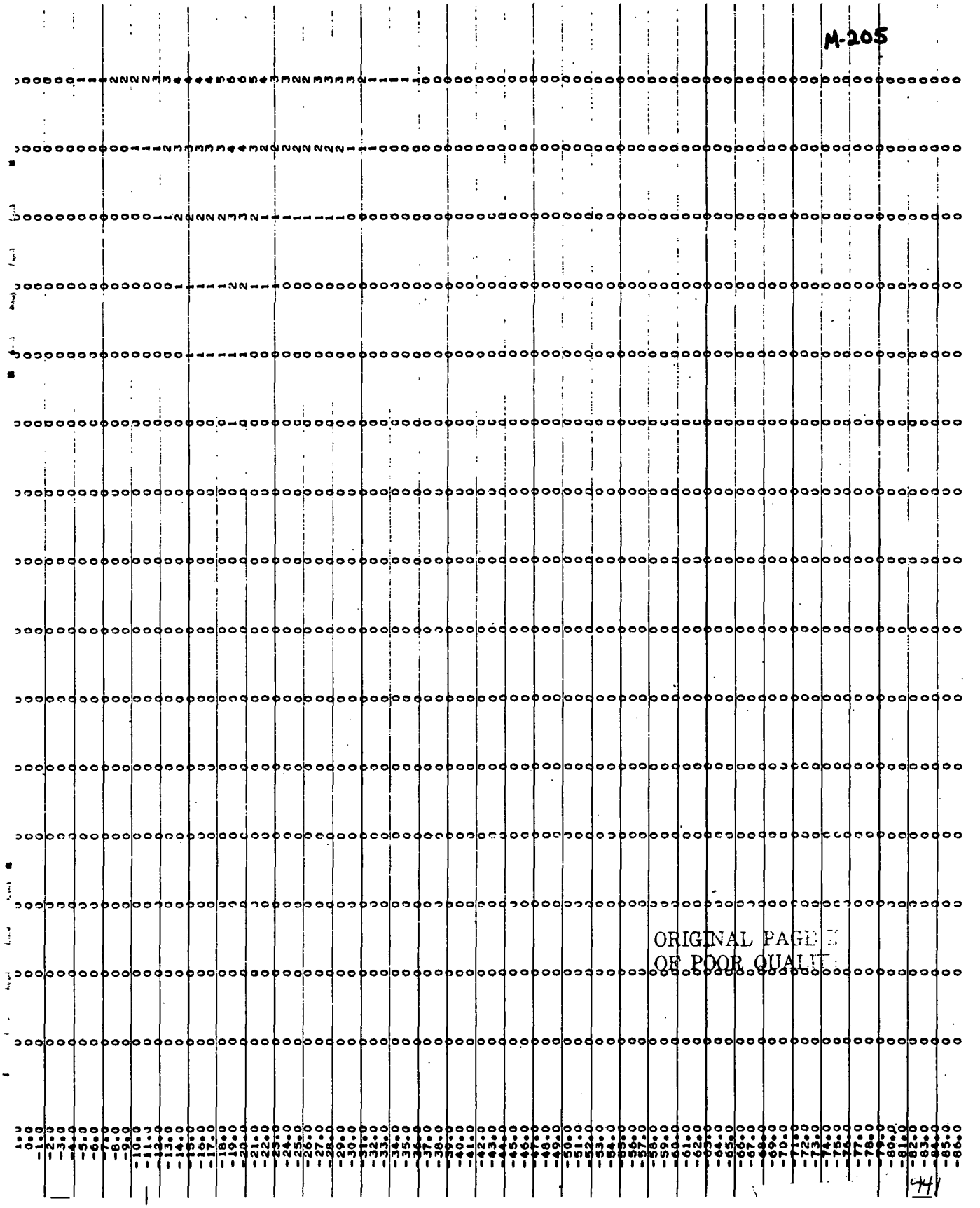
ALTITUDE: 900 KM

PROTONS: E > 200. MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MAX)

ORIGINAL PAGE IS
OF POOR QUALITY

M-205



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY=200.000 AVFLUX/SEC= 3.334E 01 PROTONS

	-135.0	-132.0	-129.0	-126.0	-123.0	-120.0	-117.0	-114.0	-111.0	-108.0	-105.0	-102.0	-99.0	-96.0	-93.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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M-206

ORIGNAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY=200.000 AVFLUX/SEC= 3.334E 01 PHOTONS

	-90.0	-87.0	-84.0	-81.0	-78.0	-75.0	-72.0	-69.0	-66.0	-63.0	-60.0	-57.0	-54.0	-51.0	-48.0
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-41.0	5	3	2	1	1	0	0	0	0	0	0	0	0	0	0	
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-43.0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
-44.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-82.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-83.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-84.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-85.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-86.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

M-207

A_TITUDE= 900.0 ENERGY=200.000 AVFLUX/SEC= 3.334E 01 PROTONS

	-45.0	-42.0	-39.0	-36.0	-33.0	-30.0	-27.0	-24.0	-21.0	-18.0	-15.0	-12.0	-9.0	-6.0	-3.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
11.0	0	0	1	1	1	1	1	2	1	0	0	0	0	0	0
10.0	1	1	1	1	1	1	2	2	1	1	1	0	0	0	0
9.0	1	1	1	1	1	2	3	2	2	1	1	0	0	0	0
8.0	2	2	1	2	2	3	3	2	2	2	1	0	0	0	0
7.0	2	2	2	2	3	5	4	3	3	2	2	1	0	0	0
6.0	2	2	3	3	5	6	5	4	3	3	2	1	0	0	0
5.0	3	3	4	5	7	6	5	5	4	4	3	2	1	0	0
4.0	3	4	5	6	8	7	6	6	5	5	4	3	2	1	0
3.0	4	5	6	8	10	8	7	7	6	6	5	4	3	3	1
2.0	5	6	8	10	11	10	9	8	7	6	5	5	4	3	2

0.0	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0
-1.0	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0
-2.0	5	4	3	2	1	1	0	0	0	0	0	0	0	0	0
-3.0	4	3	2	2	1	1	1	0	0	0	0	0	0	0	0
-4.0	4	3	2	2	1	1	1	0	0	0	0	0	0	0	0
-5.0	3	3	2	2	1	1	1	0	0	0	0	0	0	0	0
-6.0	4	3	2	2	1	1	1	1	0	0	0	0	0	0	0
-7.0	4	4	3	2	2	1	1	1	1	0	0	0	0	0	0
-8.0	5	4	4	3	2	2	1	1	1	1	0	0	0	0	0
-9.0	7	5	5	4	3	3	2	1	1	1	0	0	0	0	0
-10.0	9	6	7	5	4	3	3	2	2	1	1	1	0	0	0
-11.0	9	7	6	5	4	3	2	2	2	1	1	1	0	0	0
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-14.0	9	8	7	6	5	5	4	3	3	2	2	2	1	1	0
-15.0	10	9	9	7	7	6	5	5	5	4	4	3	2	2	1
-16.0	12	10	9	7	6	5	5	4	4	3	3	3	2	2	1
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-18.0	10	9	9	7	6	5	5	4	4	3	3	3	2	2	1
-19.0	10	9	8	7	7	6	6	5	5	4	4	3	3	2	1
-20.0	11	10	8	7	5	4	4	3	3	3	3	2	2	2	1
-21.0	10	7	6	5	4	3	3	2	2	2	2	2	1	1	1
-22.0	7	5	4	3	3	3	2	2	2	2	2	1	1	1	1
-23.0	5	4	3	3	3	2	2	1	1	1	1	1	1	1	1
-24.0	4	4	3	2	1	1	1	1	0	0	0	0	0	0	0
-25.0	4	2	2	1	1	0	0	0	0	0	0	0	0	0	0
-26.0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
-27.0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
-28.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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-35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-82.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-83.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-84.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-85.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-86.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ORIGINAL PAGE IS
OF POOR QUALITY

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ALTITUDE= 900.0 ENERGY=200.000 AVFLUX/SEC= 3.334E 01 PROTONS

	0.0	3.0	6.0	9.0	12.0	15.0	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0

M-209

ORIGINAL PAGE
OF POOR QUALITY

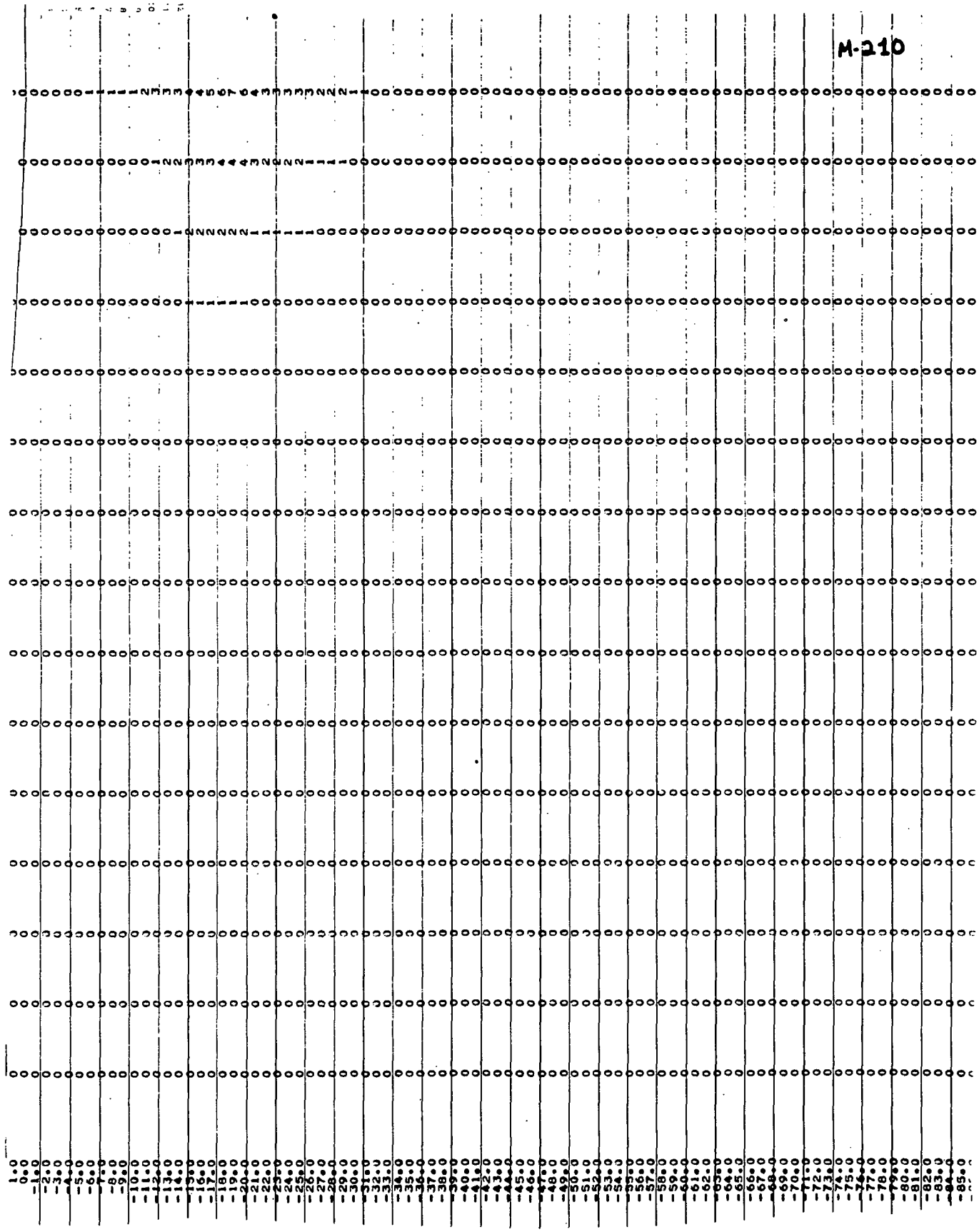
ALTITUDE= 900.0 ENERGY=200.000 AVFLUX/SEC= 3.334E 01 PROTONS

	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0	75.0	78.0	81.0	84.0	87.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ALTITUDE: 900 KM

PROTONS: E > 500. MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MAX)



ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 900.0 ENERGY=503.000 AVFLUX/SEC= 2.021E 00 PROTONS

	-135.0	-132.0	-129.0	-125.0	-123.0	-120.0	-117.0	-114.0	-111.0	-108.0	-105.0	-102.0	-99.0	-96.0	-93.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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M-2.11

ALTITUDE= 900.0 ENERGY=500.000 AVFLUX/SEC= 2.021E 00 PROTONS

	-90.0	-87.0	-84.0	-81.0	-78.0	-75.0	-72.0	-69.0	-66.0	-63.0	-60.0	-57.0	-54.0	-51.0	-48.0
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4.0	0	0	0	0	0	0	0	0	0	0	1	2	2	3	3
3.0	0	0	0	0	0	0	0	0	1	1	2	3	3	4	4
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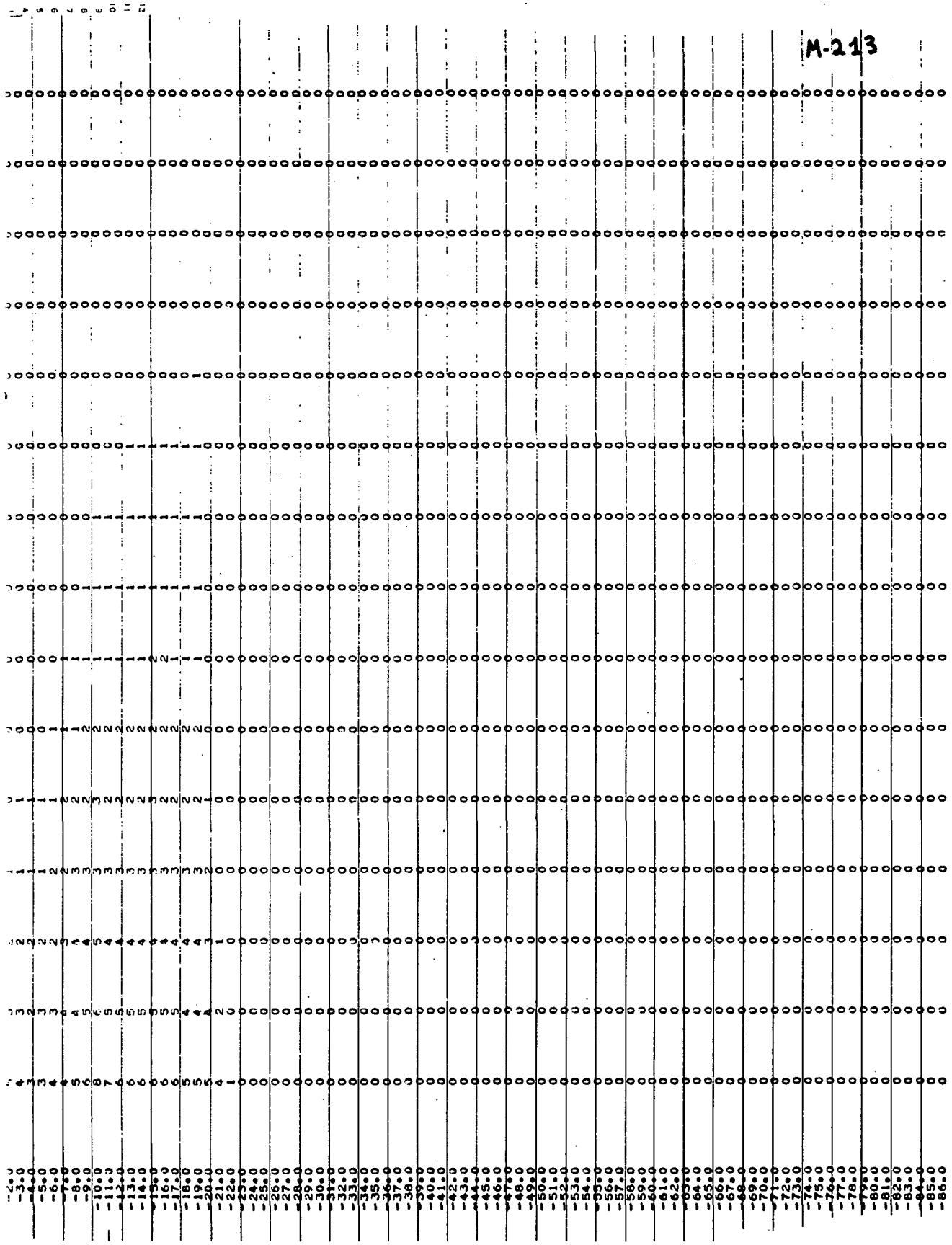
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-40.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-82.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-83.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-84.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-85.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

M-212

ORIGINAL PAGE IS
OF POOR QUALITY

A_TITUDE= 900.0 ENERGY=300.000 AVFLUX/SEC= 2.021E 00 PROTONS

	0.0	3.0	6.0	9.0	12.0	15.0	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0
81.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0



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